USDA United States Department of Agriculture

Natural Resources Conservation Service

Montana Basin Outlook Report May 1, 2001

Basin Outlook Reports
and
Federal - State - Private
Cooperative Snow Surveys

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See Attached List

How forecasts are made

Most of the annual streamflow in the Western United States originates as snowfall that has accumulated high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are combined with snowpack data to prepare runoff forecasts. Streamflow forecasts are coordinated by Natural Resources Conservation Service and National Weather Service hydrologists. This report presents a comprehensive picture of water supply conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data, and narratives describing current conditions.

Snowpack data are obtained by using a combination of manual and automated SNOTEL measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation and temperature are monitored on a daily basis and transmitted via meteor burst telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

Forecast uncertainty originates from two sources: (1) uncertainty of future hydrologic and climatic conditions, and (2) error in the forecasting procedure. To express the uncertainty in the most probable forecast, four additional forecasts are provided. The actual streamflow can be expected to exceed the most probable forecast 50% of the time. Similarly, the actual streamflow volume can be expected to exceed the 90% forecast volume 90% of the time. The same is true for the 70%, 30%, and 10% forecasts. Generally, the 90% and 70% forecasts reflect drier than normal hydrologic and climatic conditions; the 30% and 10% forecasts reflect wetter than normal conditions. As the forecast season progresses, a greater portion of the future hydrologic and climatic uncertainty will become known and the additional forecasts will move closer to the most probable forecast.

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Natural Resources Conservation Service
Bozeman, Montana

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1/9/01

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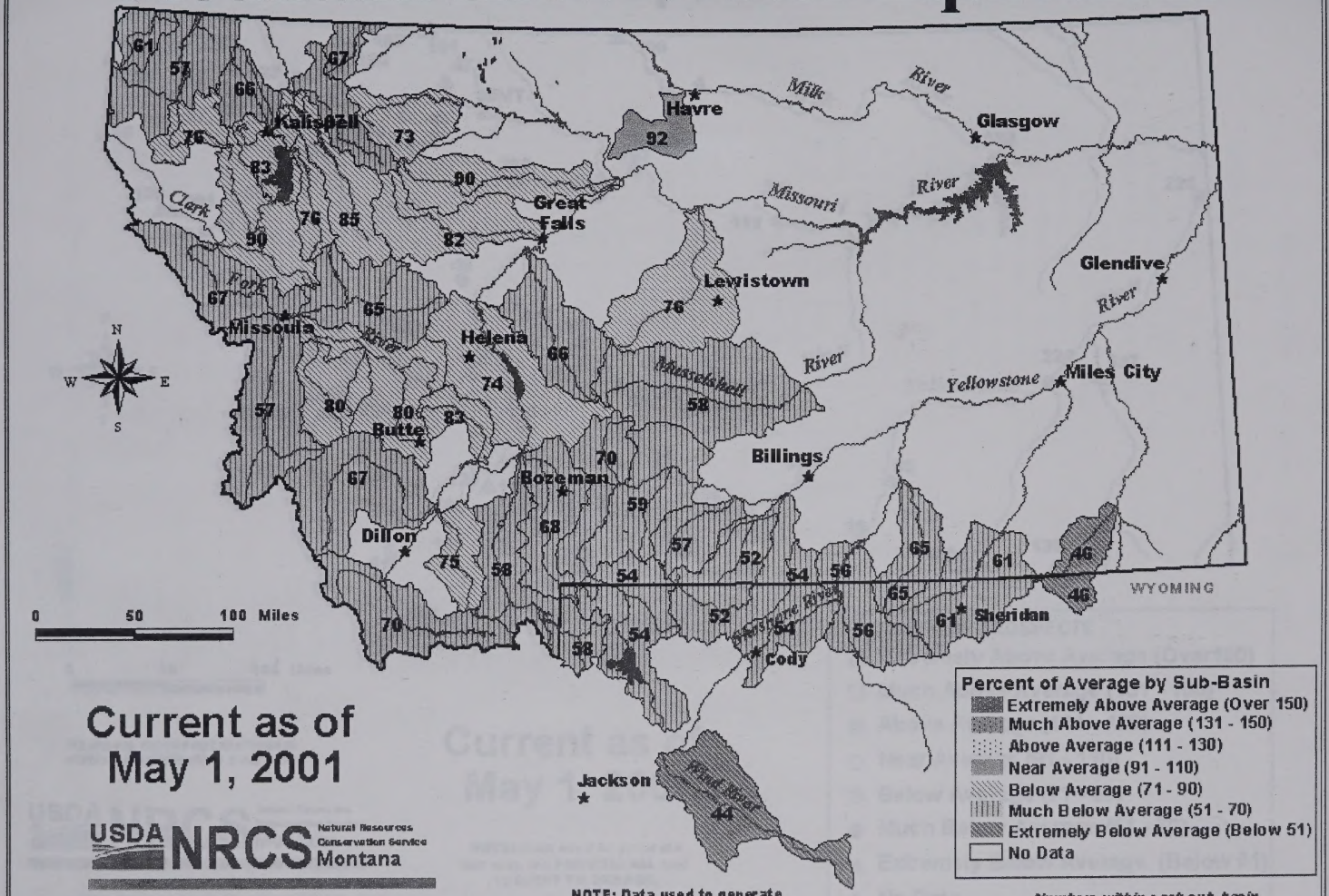
Mountain Snow Water Equivalent



Current as of May 1, 2001

USDA NRCS Natural Resources Conservation Service Montana

http://www.mt.nrcs.usda.gov

NOTE: Data used to generate this map are PROVISIONAL and SUBJECT TO CHANGE.

Percent of Average by Sub-Basin

- Extremely Above Average (Over 150)
- Much Above Average (131 - 150)
- Above Average (111 - 130)
- Near Average (91 - 110)
- Below Average (71 - 90)
- Much Below Average (51 - 70)
- Extremely Below Average (Below 51)
- No Data

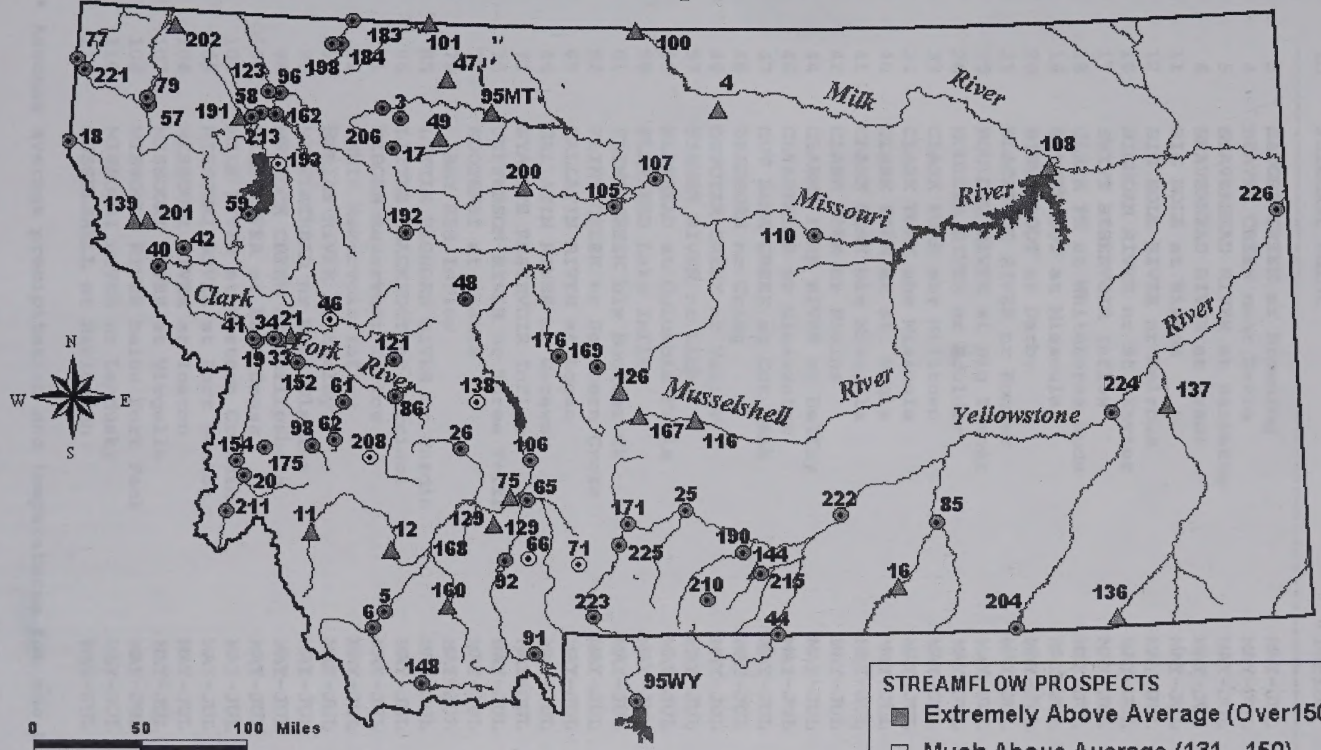
Numbers within each sub-basin represent the percent of average.

Mountain Snow Water Equivalent

UNITED STATES DEPARTMENT OF AGRICULTURE

NATURAL RESOURCES CONSERVATION SERVICE

Streamflow Prospects for Montana



STREAMFLOW PROSPECTS

- Extremely Above Average (Over150)
- Much Above Average (131 - 150)
- Above Average (111 - 130)
- Near Average (91 - 110)
- Below Average (71 - 90)
- Much Below Average (51 - 70)
- Extremely Below Average (Below 51)
- No Data

Numbers represent individual station identification numbers.

Current as of May 1, 2001

NOTE: Data used to generate this map are PROVISIONAL and SUBJECT TO CHANGE.

USDA NRCS Natural Resources Conservation Service Montana

http://www.mt.nrcs.usda.gov

Streamflow Prospects May 1, 2001

ID	Forecast Point	Period	% of Average*
3	BADGER CREEK nr Browning	MAY-JUL	46 to 54
4	BEAVER CREEK near Havre	MAY-JUL	9 to 13
5	BEAVERHEAD RIVER at Barretts	MAY-JUL	60 to 69
6	BEAVERHEAD RIVER nr Grant	MAY-JUL	49 to 65
11	BIG HOLE at Wisdom	MAY-JUL	35 to 46
12	BIG HOLE RIVER nr Melrose	MAY-JUL	41 to 47
16	BIGHORN RIVER nr St. Xavier	MAY-JUL	39 to 42
17	SWIFT RESERVOIR Inflow	MAY-JUL	45 to 53
18	CLARK FK at Whitehorse Rpds	MAY-JUL	50 to 56
19	BITTERROOT at Missoula	MAY-JUL	44 to 51
20	BITTERROOT nr Darby	MAY-JUL	47 to 52
21	BLACKFOOT RIVER nr Bonner	MAY-JUL	40 to 45
25	BOULDER RIVER at Big Timber	MAY-JUL	52 to 56
26	BOULDER RIVER nr Boulder	MAY-JUL	53 to 67
33	CLARK FORK abv Milltown	MAY-JUL	52 to 62
34	CLARK FORK abv Missoula	MAY-JUL	45 to 54
40	CLARK FORK at St. Regis	MAY-JUL	45 to 52
41	CLARK FORK blw Missoula	MAY-JUL	45 to 53
42	CLARK FORK nr Plains	MAY-JUL	50 to 55
44	CLARKS FORK RIVER nr Belfry	MAY-JUL	52 to 55
46	CLEARWATER nr Clearwater	MAY-JUL	73 to 83
47	CUT BANK CREEK at Cut Bank	MAY-JUL	35 to 40
48	DEARBORN nr Criag	MAY-JUL	40 to 52
49	DUPUYER CREEK nr Valier	MAY-JUL	23 to 42
57	FISHER RIVER nr Libby	MAY-JUL	52 to 64
58	FLATHEAD at Columbia Falls	MAY-JUL	55 to 61
59	FLATHEAD Lake Inflow	MAY-JUL	54 to 59
61	FLINT CREEK blw Boulder Ck	MAY-JUL	55 to 68
62	FLINT CREEK nr Southern Cross	MAY-JUL	52 to 64
65	GALLATIN RIVER at Logan	MAY-JUL	58 to 70
66	GALLATIN RIVER nr Gateway	MAY-JUL	68 to 73
71	HYALITE RESERVOIR Inflow	MAY-JUL	66 to 71
75	JEFFERSON RIVER nr Three Forks	MAY-JUL	34 to 40
77	KOOTENAI at Leonia	MAY-JUL	53 to 57
79	LIBBY RES Inflow	MAY-JUL	53 to 56
85	LITTLE BIGHORN RIVER nr Hardin	MAY-JUL	36 to 51
86	LITTLE BLACKFOOT nr Garrison	MAY-JUL	49 to 63
91	HEBGEN Reservoir Inflow	MAY-JUL	57 to 64
92	ENNIS Reservoir Inflow	MAY-JUL	62 to 68
95	MARIAS RIVER nr Shelby	MAY-JUL	26 to 30
96	MF FLATHEAD nr West Glacier	MAY-JUL	59 to 64
98	MF ROCK CREEK nr Philipsburg	MAY-JUL	52 to 58
100	MILK RIVER at East Cross.	MAY-JUL	25 to 29
101	MILK RIVER at Western Crossing	MAY-JUL	22 to 29
105	MISSOURI RIVER at Fort Benton	MAY-JUL	42 to 52
106	MISSOURI RIVER at Toston	MAY-JUL	46 to 54
107	MISSOURI RIVER at Virgelle	MAY-JUL	42 to 51
108	MISSOURI RIVER below Fort Peck	MAY-JUL	40 to 49
110	MISSOURI RIVER nr Landusky	MAY-JUL	43 to 51
116	MUSSELSHELL at Harlowton	MAY-JUL	16 to 19

* Assumes average precipitation and temperatures for the forecast period.

ID	Forecast Point	Period	% of Average*
121	NEVADA CREEK nr Finn	MAY-JUL	34 to 51
126	NF MUSSELSHELL nr Delpine	MAY-JUL	37 to 47
136	POWDER RIVER at Moorehead	MAY-JUL	14 to 18
137	POWDER RIVER near Locate	MAY-JUL	10 to 11
138	PRICKLY PEAR CREEK nr Clancy	MAY-JUL	53 to 73
139	PROSPECT CREEK at Thompson Falls	MAY-JUL	30 to 31
144	COONEY RESERVOIR Inflow	MAY-JUL	32 to 42
148	LIMA RESERVOIR Inflow	MAY-JUL	44 to 56
152	ROCK CREEK nr Clinton	MAY-JUL	50 to 58
154	COMO RESERVOIR Inflow	MAY-JUL	61 to 70
160	RUBY RIVER Reservoir Inflow	MAY-JUL	46 to 48
162	HUNGRY HORSE Reservoir Inflow	MAY-JUL	60 to 64
167	SF MUSSELSHELL abv Martinsdale	MAY-JUL	27 to 37
169	SHEEP CREEK nr White Sulphur Spgs.	MAY-JUL	47 to 52
171	SHIELDS RIVER nr Livingston	MAY-JUL	41 to 52
175	SKALKAHO CK nr Hamilton	MAY-JUL	45 to 54
176	SMITH RIVER abv Eagle Creek	MAY-JUL	45 to 51
183	ST. MARY RIVER at US/CAN Border	MAY-JUL	54 to 58
184	ST. MARY RIVER nr Babb	MAY-JUL	61 to 64
190	STILLWATER RIVER nr Absarokee	MAY-JUL	58 to 62
191	STILLWATER nr Whitefish	MAY-JUL	35 to 40
192	GIBSON Reservoir Inflow	MAY-JUL	53 to 61
193	SWAN RIVER nr Bigfork	MAY-JUL	67 to 71
198	LAKE SHERBURNE Inflow	MAY-JUL	61 to 65
200	TETON nr Dutton	MAY-JUL	5 to 7
201	THOMPSON nr Thompson Falls	MAY-JUL	32 to 35
202	TOBACCO RIVER nr Eureka	MAY-JUL	42 to 47
204	TONGUE RIVER RESERVOIR Inflow	MAY-JUL	50 to 58
206	TWO MEDICINE RIVER nr Browning	MAY-JUL	48 to 56
208	WARM SPRINGS CK at Anaconda	MAY-JUL	64 to 78
210	MYSTIC LAKE Reservoir Inflow	MAY-JUL	56 to 60
211	WF BITTERROOT nr Conner	MAY-JUL	42 to 52
213	WHITEFISH nr Kalispell	MAY-JUL	45 to 54
215	LOWER WILLOW CK RES Inflow	MAY-JUL	38 to 55
217	WILLOW CREEK Reservoir Inflow	MAY-JUL	29 to 40
221	YAAK RIVER nr Troy	MAY-JUL	48 to 57
222	YELLOWSTONE RIVER at Billings	MAY-JUL	47 to 52
223	YELLOWSTONE RIVER at Corwin Spgs.	MAY-JUL	64 to 69
224	YELLOWSTONE RIVER at Miles City	MAY-JUL	50 to 57
225	YELLOWSTONE RIVER near Livingston	MAY-JUL	64 to 68
226	YELLOWSTONE RIVER nr Sidney	MAY-JUL	48 to 51
227	YELLOWSTONE at Lake Outlet	MAY-JUL	55 to 60

* Assumes average precipitation and temperatures for the forecast period.

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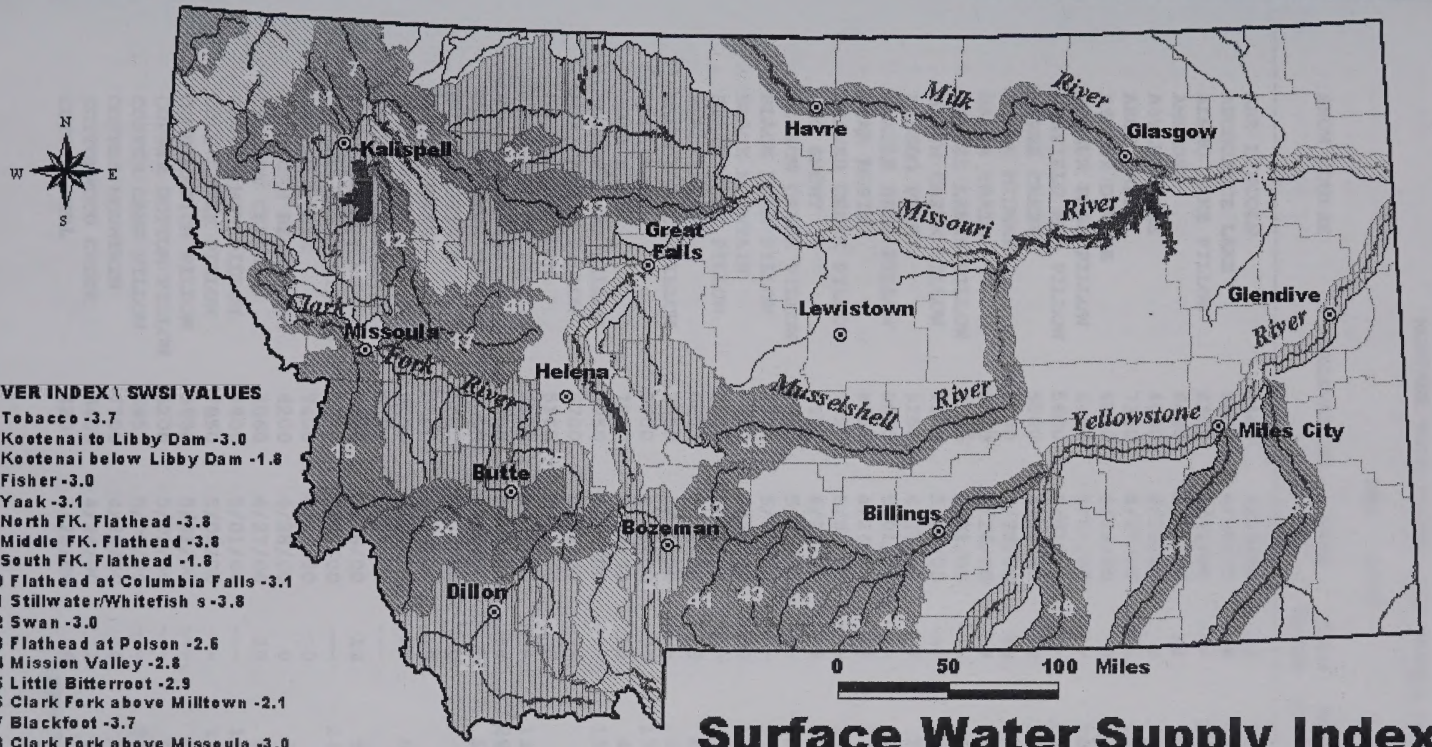


RIVER INDEX \ SWSI VALUES

2 Tobacco -3.7
3 Kootenai to Libby Dam -3.0
4 Kootenai below Libby Dam -1.8
5 Fisher -3.0
6 Yaak -3.1
7 North FK. Flathead -3.8
8 Middle FK. Flathead -3.8
9 South FK. Flathead -1.8
10 Flathead at Columbia Falls -3.1
11 Stillwater/Whitefish s -3.8
12 Swan -3.0
13 Flathead at Polson -2.6
14 Mission Valley -2.8
15 Little Bitterroot -2.9
16 Clark Fork above Milltown -2.1
17 Blackfoot -3.7
18 Clark Fork above Missoula -3.0
19 Bitterroot -3.4
20 Clark Fork below Bitterroot -3.1
21 Clark Fork below Flathead -2.8
22 Beaverhead -2.9
23 Ruby -2.6
24 Big Hole -3.7
25 Boulder (Jefferson) -2.7
26 Jefferson -3.2
27 Madison -1.6
28 Gallatin -2.6
29 Missouri above Canyon Ferry -2.4
30 Missouri below Canyon Ferry -1.8
31 Smith -2.6
32 Sun -2.3
33 Teton -3.8
34 Birch/Dupuyer Creeks -3.7
35 Marias -2.4
36 Musselshell -3.8
37 Missouri above Fort Peck -1.0
38 Missouri below Fort Peck -1.3
39 Milk -3.9
40 Dearborn near Craig -3.8
41 Yellowstone above Livingston -3.0
42 Shields -3.4
43 Boulder (Yellowstone) -3.8
44 Stillwater -3.6
45 Rock/Red Lodge Creeks -3.4
46 Clarks Fork -3.8
47 Yellowstone above Bighorn -3.2
48 Bighorn below Bighorn Lake -2.3
49 Little Bighorn -3.4
50 Yellowstone below Bighorn -2.8
51 Tongue -3.1
52 Powder -3.9

Surface Water Supply Index (SWSI) Values

SWSI VALUES

- Extremely Dry -4.0 to -3.0
- Moderately Dry -2.9 to -2.0
- Slightly Dry -1.9 to -1.0
- Near Average -0.9 to 0.9
- Sightly Wet 1.0 to 1.9
- Moderately Wet 2.0 to 2.9
- Extremely Wet 3.0 to 4.0
- SWSI Not Applicable

NOTE: Data used to generate this map are PROVISIONAL and SUBJECT TO CHANGE.

Current as of May 1, 2001

UDSA NRCS Natural Resources Conservation Service Montana

http://www.mt.nrcs.usda.gov

MONTANA SNOW COURSE AND SNOTEL DATA

MAY 2000

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-90
ABE LINCOLN	4440	4/26/00	32	15.7	24.9	--
ABUNDANCE LAKE	8800	4/30/00	46	19.4	26.7	22.6
ALBRO LAKE PILLOW	8300	5/01/00	---	11.5	22.4	23.9
AMBROSE	6480	4/27/00	12	4.5	14.0	12.1
ASHLEY LAKE	4000	4/29/00	0	.0	.0	1.2
ARCH FALLS	7350	4/27/00	31	10.7	12.6	13.7
ASHLEY DIVIDE	4820	4/29/00	0	.0	.3	1.0
BADGER PASS PILLOW	6900	5/01/00	---	26.1	47.0	37.8
BANFIELD MTN PILLOW	5600	5/01/00	---	13.8	23.9	18.3
BAREE CREEK	5500	4/26/00	82	37.9	58.8	43.0
BAREE MIDWAY	4600	4/26/00	70	29.9	46.4	29.4
BAREE TRAIL	3800	4/26/00	7	3.3	.0	1.3
BARKER LAKES PILLOW	8250	5/01/00	---	8.1	18.3	16.0
BASIN CREEK PILLOW	7180	5/01/00	---	5.4	9.4	10.0
BASSOO PEAK	5150	4/27/00	7	2.8	3.6	5.7
BEAGLE SPGS PILLOW	8850	5/01/00	---	3.7	15.6	8.8
BEAR BASIN	8150	4/26/00	45	17.6	19.0	22.0
BEAVER CREEK PILLOW	7850	5/01/00	---	13.3	20.2	20.5
BIG SNOWY	7150	4/28/00	49	20.1	20.8	24.3
BISSON CREEK PILLOW	4920	5/01/00	---	2.0	3.7	2.5
BLACK BEAR PILLOW	7950	5/01/00	---	34.4	52.2	39.8
BLACK MOUNTAIN	7750	4/24/00	30	10.5	16.7	17.8
BLACK PINE PILLOW	7100	5/01/00	---	2.6	11.8	12.0
BLACKTAIL	5650	5/02/00	12	5.0	13.2	7.0
BLOODY DICK PILLOW	7550	5/01/00	---	5.2	13.0	10.5
BLUE LAKE	5900	4/26/00	38	17.6	29.8	23.9
BOTS SOTS	7750	4/26/00	13	4.3	9.3	8.1
BOULDER MTN PILLOW	7950	5/01/00	---	12.2	22.7	21.7
BOX CANYON PILLOW	6700	5/01/00	---	.3	6.6	3.8
BOXELDER CREEK	5100	5/01/00	0	.0	3.6	2.2
BRACKETT CR PILLOW	7320	5/01/00	---	13.0	22.3	22.7
BRANHAM LAKES	8850	4/27/00	64	29.1	30.1	33.2
BRUSH CREEK TIMBER	5000	4/26/00	3	1.0	1.1	6.0
BULL MOUNTAIN	6600	4/27/00	0	.0	.8	3.1
CABIN CREEK	5200	4/26/00	0	.0	1.3	1.9
CALL ROAD	8050	4/30/00	22	8.1	11.0	13.0
CALVERT CR PILLOW	6430	5/01/00	---	.0	5.1	3.4
CAMP SENIA	7890	4/26/00	19	5.2	9.5	8.4
CARROT BASIN PILLOW	9000	5/01/00	---	24.6	35.5	31.2
CARTER CREEK	7400	4/26/00	0	.0	7.6	--
CHESSMAN RESERVOIR	6200	4/28/00	0	.0	.2	2.4
CHICKEN CREEK	4060	4/27/00	20	8.1	11.9	3.6
CLOVER MDW PILLOW	8800	5/01/00	---	16.1	20.7	19.0
COLE CREEK PILLOW	7850	5/01/00	---	11.6	18.6	20.6
COMBINATION PILLOW	5600	5/01/00	---	.0	.0	3.2
COPPER BOTTOM PILLOW	5200	5/01/00	---	1.5	7.1	8.1
COPPER CAMP PILLOW	6950	5/01/00	---	22.6	45.6	35.3
COPPER MOUNTAIN	7700	4/29/00	10	3.3	9.6	10.6
COTTONWOOD CREEK	6400	4/24/00	11	3.8	8.1	7.6
COYOTE HILL	4200	4/28/00	0	.0	1.0	3.0

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-90
CRYSTAL LAKE PILLOW	6050	5/01/00	---	9.1	7.9	10.9
DAD CREEK LAKE	8400	4/30/00	31	12.6	19.2	16.6
DAISY PEAK	7600	4/28/00	13	4.4	9.8	8.7
DAISY PEAK PILLOW	7600	5/01/00	---	7.2	11.3	12.6
DAISY PEAK	7600	4/28/00	13	4.4	9.8	8.7
DALY CREEK PILLOW	5780	5/01/00	---	.0	5.5	5.8
DARKHORSE LK. PILLOW	8700	5/01/00	---	30.1	34.6	35.3
DAVIS CREEK	5400	4/26/00	43	19.8	37.3	21.5
DEADMAN CR PILLOW	6450	5/01/00	---	3.1	5.3	6.9
DISCOVERY BASIN	7050	4/27/00	13	5.2	9.4	10.0
DIVIDE PILLOW	7800	5/01/00	---	8.2	11.7	12.1
DIX HILL	6400	4/30/00	0	.0	.0	4.4
DUPUYER CREEK PILLOW	5750	5/01/00	---	.9	12.2	8.5
EAST FORK R.S.	5400	4/26/00	0	.0	.0	.9
ELK HORN SPRINGS	7800	4/30/00	7	2.5	8.5	7.7
ELK PEAK	8000	4/27/00	26	8.8	18.4	19.2
EMERY CREEK PILLOW	4350	5/01/00	---	7.8	8.2	8.5
FATTY CREEK	5500	4/30/00	46	19.2	21.9	23.6
FISHER CREEK PILLOW	9100	5/01/00	---	31.7	43.7	38.7
FIVE-BULL	5700	4/24/00	0	.0	2.1	3.2
FLATTOP MTN PILLOW	6300	5/01/00	---	40.5	58.3	48.4
FLEECER RIDGE	7500	4/27/00	8	3.4	10.7	8.4
FOOLHEN	8280	4/30/00	28	10.8	17.4	18.2
FOUR MILE	6900	4/26/00	6	2.0	6.4	6.9
FOURTH OF JULY	3450	4/27/00	0	.0	.0	1.0
FREIGHT CREEK	6000	4/26/00	18	7.4	18.4	13.2
FROHNER MDWS PILLOW	6480	5/01/00	---	1.0	6.8	7.1
GARVER CREEK PILLOW	4250	5/01/00	---	2.6	7.9	3.3
GARVER CREEK	4250	4/26/00	10	3.0E	8.9	4.0
GOAT MOUNTAIN	7000	4/27/00	13	5.4	8.9	8.6
GOLD STONE	8100	4/30/00	30	13.1	17.8	18.0
GRASSHOPPER	7000	4/27/00	0	.0	2.8	4.6
GRAVE CRK PILLOW	4300	5/01/00	---	6.8	9.4	9.0
GRIFFIN CR DIVIDE	5150	4/27/00	4	1.8	3.4	6.3
HAND CREEK PILLOW	5030	5/01/00	---	1.6	6.3	8.3
HAWKINS LAKE PILLOW	6450	5/01/00	---	20.0	41.0	30.4
HEBGEN DAM	6550	4/24/00	10	3.8	7.0	6.8
HELL ROARING DIVIDE	5770	4/27/00	63	29.3	30.1	30.1
HERRIG JUNCTION	4850	4/27/00	50	22.6	30.4	23.2
HOLBROOK	4530	4/27/00	0	.0	.0	1.7
HOODOO BASIN PILLOW	6050	5/01/00	---	36.4	63.0	47.2
ICEBERG LAKE NO 3	5600	4/27/00	52	24.8	39.8	29.2
INDEPENDENCE	7850	4/26/00	31	12.0	19.1	17.0
INTERGAARD	6450	4/26/00	0	.0	5.8	7.2
JOHNSON PARK	6450	4/28/00	0	.0	.0	2.3
JOSEPHINE LOWER NO 9	4900	4/26/00	30	13.3	23.7	15.1
KRAFT CREEK PILLOW	4750	5/01/00	---	5.9	5.3	5.8
LAKE CREEK	6100	4/30/00	0	.0	.0	3.1
LAKEVIEW CANYON	6930	4/28/00	9	2.8	13.9	11.0
LAKEVIEW RDG. PILLOW	7400	5/01/00	---	3.1	15.3	9.2
LEMHI RIDGE PILLOW	8100	5/01/00	---	4.8	11.8	10.8
LICK CREEK PILLOW	6860	5/01/00	---	7.0	9.9	11.2
LITTLE PARK	7400	4/26/00	29	11.2	14.2	16.4
LOGAN CREEK	4300	4/26/00	3	.9	1.0	2.2

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-90
LONE MOUNTAIN PILLOW	8880	5/01/00	---	17.4	23.3	20.8
LOWER TWIN PILLOW	7900	5/01/00	---	14.0	19.6	21.9
LUBRECHT PILLOW	4680	5/01/00	---	.0	.0	1.7
LUBRECHT FOREST NO 3	5450	4/29/00	0	.0	.4	3.0
LUBRECHT FOREST NO 4	4650	4/29/00	0	.0	.0	.2
LUBRECHT FOREST NO 6	4040	4/29/00	0	.0	.0	.1
LUBRECHT HYDROPLOT	4200	4/29/00	0	.0	.0	.1
MADISON PLT PILLOW	7750	5/01/00	---	16.0	30.4	23.8
MANY GLACIER PILLOW	4900	5/01/00	---	.0	5.5	8.0
MARIAS PASS	5250	4/27/00	24	11.0	17.9	14.4
MAYNARD CREEK	6210	4/27/00	17	6.5	14.0	15.2
MIDDLE MILL CREEK	7850	4/27/00	27	11.7	13.8	16.6
MILL CREEK	7500	4/25/00	26	9.6	11.2	11.0
MINERAL CREEK	4000	4/29/00	26	11.5	11.9	11.2
MONUMENT PK PILLOW	8850	5/01/00	---	20.7	28.4	23.8
MOSS PEAK PILLOW	6780	5/01/00	---	34.5	41.9	41.8
MOUNT ALLEN NO 7	5700	4/26/00	102	47.5	69.0	43.8
MT LOCKHART PILLOW	6400	5/01/00	---	14.7	27.5	21.9
MULE CREEK PILLOW	8300	5/01/00	---	16.1	19.6	17.0
NEVADA RIDGE PILLOW	7020	5/01/00	---	10.7	17.8	13.3
NEWTON MOUNTAIN	5600	4/27/00	72	34.3	50.9	35.4
NEZ PERCE CMP PILLOW	5650	5/01/00	---	7.4	13.5	11.7
NEZ PERCE CREEK	6600	4/29/00	0	.0	2.0	3.4
NEZ PERCE PASS	6570	4/26/00	27	11.5	12.6	15.6
NOISY BASIN PILLOW	6040	5/01/00	---	41.8	44.4	44.0
N.F. ELK CR PILLOW	6250	5/01/00	---	3.5	9.2	9.6
NF JOCKO PILLOW	6330	5/01/00	---	36.3	46.3	46.3
N.E. ENTRANCE PILLOW	7350	5/01/00	---	.2	6.3	5.9
NOTCH	8500	4/30/00	36	14.5	19.0	18.5
OPHIR PARK	7150	4/30/00	19	7.9	14.8	17.4
PETERSON MDW PILLOW	7200	5/01/00	---	5.6	12.8	11.3
PICKFOOT CRK PILLOW	6650	5/01/00	---	.0	3.7	4.8
PIEGAN PASS NO 6	5500	4/26/00	75	32.6	61.2	37.5
PIKE CREEK PILLOW	5930	5/01/00	---	17.6	33.2	27.8
PIPESTONE PASS	7200	4/29/00	0	.0	7.0	5.0
PLACER BASIN PILLOW	8830	5/01/00	---	16.5	22.3	21.2
PORCUPINE PILLOW	6500	5/01/00	---	.0	.5	3.9
POTOMAGETON PARK	7150	4/27/00	0	.0	8.6	9.4
PTARMIGAN	5800	4/27/00	65	30.1	46.1	36.2
RED MOUNTAIN	6000	4/28/00	29	13.1	22.0	17.5
RED TOP	5260	4/27/00	58	27.0	40.3	28.8
REVAIS CREEK	4800	4/25/00	0	.0	.0	.0
ROCK CREEK	5600	4/28/00	0	.0	1.6	5.4
ROCK CREEK MEADOW	8160	4/26/00	57	17.1	22.7	24.2
ROCKER PEAK PILLOW	8000	5/01/00	---	11.0	15.6	17.7
ROCKY BOY PILLOW	4700	5/01/00	---	.0	.0	1.9
ROCKY BOY	4700	5/01/00	0	.0	.0	1.4
SACAJAWEA	6550	4/27/00	10	3.7	12.5	12.7
SADDLE MTN PILLOW	7900	5/01/00	---	17.1	28.7	27.6
SHORT CREEK PILLOW	7000	5/01/00	---	2.3	5.5	2.0
SHOWER FALLS PILLOW	8100	5/01/00	---	22.9	24.3	28.0
SKALKAHO PILLOW	7260	5/01/00	---	18.2	30.1	26.2
SLIDE ROCK MOUNTAIN	7100	4/26/00	21	7.5	19.8	17.2
SMUGGLER MINE	6960	4/27/00	10	3.5	6.2	9.0

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-90
S.F. SHIELDS PILLOW	8100	5/01/00	---	12.5	20.2	19.1
SPOTTED BEAR MTN.	7000	4/26/00	19	8.0	9.6	9.6
SPUR PARK PILLOW	8100	5/01/00	---	18.8	26.3	23.6
SLEEPING WOMAN PILL	6150	5/01/00	---	9.1	18.0	14.9
STAHL PEAK PILLOW	6030	5/01/00	---	33.4	44.5	36.5
STEMPLE PASS	6600	4/28/00	19	6.7	8.4	10.3
STORM LAKE	7780	4/27/00	24	9.6	16.6	15.0
STRYKER BASIN	6180	4/27/00	71	32.4	38.6	35.8
STUART MOUNTAIN	7400	4/30/00	57	24.4	37.8	32.3
STUART MOUNTAIN PILL	7400	5/01/00	---	26.9	39.8	30.4
SUCKER CREEK	3960	5/01/00	0	.0	.0	.3
TAYLOR ROAD	4080	5/01/00	0	.0	.0	.5
TEN MILE LOWER	6600	4/28/00	0	.0	2.0	5.4
TEN MILE MIDDLE	6800	4/28/00	14	4.5	8.6	12.4
TEPEE CREEK PILLOW	8000	5/01/00	---	12.0	16.9	13.0
TIMBERLINE CREEK	8850	4/26/00	42	13.8	19.3	17.8
TIZER BASIN PILLOW	6840	5/01/00	---	.7	7.5	10.3
TRAIL CREEK	7090	4/30/00	0	.0	4.5	6.3
TRINKUS LAKE	6100	4/26/00	84	38.9	46.0	43.1
TRUMAN CREEK	4060	4/29/00	0	.0	.0	.6
TV MOUNTAIN	6800	4/30/00	25	11.0	19.8	18.7
TWELVEMILE PILLOW	5600	5/01/00	---	.0	10.2	12.4
TWENTY-ONE MILE	7150	4/30/00	16	6.7	15.1	14.8
TWIN CREEKS	3580	4/26/00	7	3.0	2.9	1.8
TWIN LAKES PILLOW	6400	5/01/00	---	31.9	51.8	39.8
UPPER HOLLAND LAKE	6200	4/26/00	79	35.1	37.8	35.2
WALDRON PILLOW	5600	5/01/00	---	2.5	11.8	6.5
WARM SPRINGS PILLOW	7800	5/01/00	---	16.8	24.9	24.9
WEASEL DIVIDE	5450	4/27/00	66	31.0	40.2	33.6
WEST YELLOWSTONE	6700	4/30/00	0	.0	9.0	7.1
WEST YELL'ST PILLOW	6700	5/01/00	---	.0	7.2	6.8
WHISKEY CREEK PILLOW	6800	5/01/00	---	9.5	20.5	15.2
WHITE MILL PILLOW	8700	5/01/00	---	25.3	30.1	26.3
WHITE PINE RIDGE	8850	4/30/00	0	.0	7.1	5.8
WILLOW CREEK	6500	4/25/00	7	2.4	3.6	4.4
WOOD CREEK PILLOW	5960	5/01/00	---	4.7	11.2	8.6
WRONG CREEK	5700	4/25/00	13	5.4	8.3	9.2
WRONG RIDGE	6800	4/26/00	33	13.8	17.8	18.6

Montana Water Supply Outlook Report as of May 1, 2001

April was a variable weather month across Montana. The first two weeks were cold and snowy adding significant amounts of mountain snow in most areas. The end of April had well above average temperatures and snow melt. Temperatures were generally one to two degrees below average west of the divide and one to three degrees above average east of the divide. Mountain precipitation ranged from near average to well above average. Basins along the front range reported the highest amount of precipitation at 154 percent of average.

Snowpack

Montana mountain snow water contents were ranging from severely below average to near average. Snow storms during April added substantial amounts to the mountain snowpack and brought most basins from near record lows or below record lows to above the record low years. Cold temperatures kept the mountain snowpack from melting prematurely for most of April. Statewide mountain snow water content was 67 percent of average and 96 percent of last year. West of the Continental Divide, snowpack was 68 percent of average and 89 percent of last year and East of the continental Divide, snowpack was 63 percent of average and 95 percent of last year. Snowpack extremes were the highest in the Teton River Basin at 90 percent of average and 177 percent of last year. The lowest was in the Red Lodge/Rock Creek basins at 43 percent of average and 72 percent of last year.

RIVER BASIN	% OF AVERAGE	% OF LAST YEAR
COLUMBIA	68	90
KOOTENAI	62	69
FLATHEAD	73	88
UPPER CLARK FORK	72	130
BITTERROOT	57	93
LOWER CLARK FORK	67	79
MISSOURI	69	116
MISSOURI HEADWATERS	67	110
JEFFERSON	71	120
MADISON	58	89
GALLATIN	68	106
MISSOURI MAINSTEM	76	137
HEADWATERS MAINSTEM	74	158
SMITH-JUDITH-MUSSELSHELL	71	126
SUN-TETON-MARIAS	77	124
MAINSTEM ABOVE FT. PECK RES	75	132
MILK (Bearpaw Mtns.)	92	--
ST. MARY	67	77
ST. MARY & MILK	68	79
YELLOWSTONE	54	83
UPPER YELLOWSTONE	58	87
LOWER YELLOWSTONE (WYOMING)	52	79
WIND	44	75
SHOSHONE	54	78
BIGHORN	56	80
TONGUE	61	75
POWDER	46	81

Precipitation

April mountain and valley precipitation across the state was 120 percent of average and 164 percent of last year, while the water year precipitation was 74 percent of average and 83 percent of last year. West of the Continental Divide, April mountain and valley precipitation was 134 percent of average and 188 percent of last year and the water year precipitation was 69 percent of average and 71 percent of last year. East of the Divide, April mountain and valley precipitation was 112 percent of average and 151 percent of last year and the water year precipitation was 78 percent of average and 93 percent of last year.

RIVER BASIN	APRIL % OF AVERAGE	WATER YEAR % OF AVERAGE
COLUMBIA	134	69
KOOTENAI	141	55
FLATHEAD	142	68
UPPER CLARK FORK	130	81
BITTERROOT	123	70
LOWER CLARK FORK	128	64
MISSOURI	119	79
JEFFERSON	137	86
MADISON	115	75
GALLATIN	98	72
MISSOURI MAINSTEM	104	84
SMITH-JUDITH-MUSSELSHELL	109	80
SUN-TETON-MARIAS	157	75
MILK	79	71
ST. MARY	131	56
YELLOWSTONE	99	72
UPPER YELLOWSTONE	106	71
LOWER YELLOWSTONE	97	78
WIND	88	58
SHOSHONE	108	80
BIGHORN	103	77
TONGUE	87	73
POWDER	85	74

Reservoirs

Major reservoir storage statewide was 106 percent of average and 102 percent of last year. Reservoir storage west of the Continental Divide was 112 percent of average and 108 percent of last year. East of the Continental Divide, reservoir storages were 98 percent of average and 93 percent of last year.

RIVER BASIN	% OF AVERAGE	% OF LAST YEAR
COLUMBIA	106	102
KOOTENAI	123	141
FLATHEAD	102	90
UPPER CLARK FORK	76	65
BITTERROOT	87	75
LOWER CLARK FORK	155	101
MISSOURI	96	92
JEFFERSON	80	73
MADISON	114	95
GALLATIN	113	108
MISSOURI MAINSTEM	102	104
SMITH-JUDITH-MUSSELSHELL	44	48
SUN-TETON-MARIAS	100	86
MILK	22	28
ST. MARY	37	97
YELLOWSTONE	107	97
UPPER YELLOWSTONE	114	110
LOWER YELLOWSTONE	107	96

Streamflow

SEASONAL STREAMFLOW FORECASTS

Statewide, streamflows are forecast to average between 44 and 50 percent. West of the Continental Divide, streamflows are forecast to average between 49 and 56 percent of average and east of the Continental Divide, streamflows are forecast to average between 37 and 43 percent of average.

Even though the first half of April brought much needed snow fall and cold temperatures, streamflows are generally expected to be very low this spring and summer. Streamflow lows are dependent upon spring temperatures and the amount of rain each area receives.

Snow melt peak flows are expected to occur earlier than normal with peaks occurring between the second and third week of May, except in the Gallatin and Yellowstone River Basins where they are expected to peak in late May to early June. Snow melt peak flows are forecast to average 26 percent tp 58 percent in the Columbia River, 32 percent to 57 percent in the Missouri River, and 40 percent to 58 percent in the Yellowstone River.

Below are River Basin streamflow forecast summaries for the period May 1 through July 31. THESE FORECASTS ASSUME NEAR NORMAL SPRING CONDITIONS AND DO NOT ACCOUNT FOR WELL BELOW AVERAGE (70% or less) OR WELL ABOVE AVERAGE (130% or more) SNOWMELT OR SPRING RAIN. Specific forecast probabilities are available in each individual River Basin Report.

RIVER BASIN	May-July THIS YEAR % OF AVERAGE	May-July LAST YEAR % OF AVERAGE
COLUMBIA	49 to 56	67 to 84
KOOTENAI	50 to 57	83 to 98
FLATHEAD	53 to 59	79 to 92
UPPER CLARK FORK	50 to 61	48 to 76
BITTERROOT	48 to 56	63 to 83
LOWER CLARK FORK	43 to 49	62 to 73
MISSOURI	46 to 54	51 to 78
JEFFERSON	43 to 53	36 to 70
MADISON	57 to 64	73 to 86
GALLATIN	64 to 72	76 to 93
MISSOURI MAINSTEM	43 to 53	39 to 76
SMITH-JUDITH-MUSSELSHELL	34 to 41	45 to 80
SUN-TETON-MARIAS	35 to 43	51 to 88
MILK	21 to 26	20 to 49
ST. MARY	59 to 62	71 to 83
YELLOWSTONE	44 to 50	60 to 85
UPPER YELLOWSTONE	52 to 58	65 to 84
LOWER YELLOWSTONE	37 to 42	56 to 86

NOTE: The MAY-JULY LAST YEAR % OF AVERAGE column above is last years forecasts on May 1, NOT of what actually occurred.

Peak Streamflow Forecasts

WATERSHED	SNOWMELT PEAK FLOW DATES
COLUMBIA RIVER	
Fisher and Yaak Rivers	May 1 to May 7
North Fork Flathead River near Columbia Falls	May 13 to May 19
Middle Fork Flathead River near West Glacier	May 13 to May 19
Hungry Horse Reservoir inflow	May 13 to May 19
Lower Willow and Nevada CK. Res. inflow	May 11 to May 17
Swan River	May 22 to May 28
Blackfoot River near Bonner	May 16 to May 22
Clark Fork above Missoula	May 18 to May 24
Clark Fork below Missoula	May 16 to May 22
Bitterroot River near Darby	May 15 to May 22
Middle Fork Rock Creek	May 23 to May 29

Peak Streamflow Forecasts (continued)

WATERSHED	SNOWMELT PEAK FLOW DATES
MISSOURI RIVER	
Clark Canyon Res. inflow	May 20 to May 27
Ruby Res. inflow	May 24 to May 30
Big Hole near Melrose	May 22 to May 28
Hebgen Res. inflow	May 12 to May 18
Gallatin River	May 30 to June 5
Missouri at Toston	May 26 to June 2
Sheep Creek near White Sulphur Springs	May 13 to May 19
Smith River near Eagle Creek	May 24 to May 30
Gibson Reservoir inflow	May 17 to May 23
Swift Reservoir inflow	May 21 to May 27
YELLOWSTONE RIVER	
All forecast stations above Billings	June 1 to June 7

PEAK STREAMFLOW FORECASTS FOR UNREGULATED STREAMS ARE AS FOLLOWS:

	PEAK RANGE IN DAILY CFS	PEAK RANGE AS PERCENT OF AVERAGE	AVERAGE DAILY PEAK IN CFS
COLUMBIA RIVER			
Fisher Creek nr Libby	900 to 1,700	36 to 69	2,466
Yaak River nr Troy	1,400 to 3,800	23 to 63	6,021
Blackfoot near Bonner	1,800 to 4,400	19 to 46	9,588
Clark Fork ab Missoula	3,200 to 7,300	19 to 44	16,738
Bitterroot near Darby	2,200 to 4,300	35 to 69	6,229
Clark Fork blw Missoula	8,000 to 17,000	25 to 53	31,992
Clark Fork at St. Regis	12,000 to 22,000	30 to 56	39,984
North Fork Flathead near Columbia Falls	5,000 to 11,500	24 to 54	21,189
Middle Fork Flathead near West Glacier	7,500 to 12,750	33 to 57	22,463
Hungry Horse Res Inflow	14,000 to 19,000	49 to 66	28,600
Swan at Big Fork	1,900 to 3,800	36 to 73	5,228
Nevada Creek near Finn	30 to 180	9 to 54	334
Middle Fork Rock Creek near Philipsburg	230 to 480	27 to 56	853
MISSOURI RIVER			
Big Hole near Melrose	2,300 to 4,600	29 to 57	8,015
Inflow Clark Canyon Dam	450 to 1,050	-- to --	-----
Inflow Ruby Reservoir	240 to 640	23 to 62	1,037
Inflow Hebgen Reservoir	1,500 to 2,300	43 to 67	3,442
Gallatin near Gateway	2,700 to 3,700	50 to 69	5,389
Gallatin near Logan	2,600 to 4,300	47 to 77	5,581
Missouri at Toston	6,750 to 12,500	35 to 66	19,042
Marias near Shelby	800 to 3,000	9 to 26	11,516
Inflow Gibson Reservoir	3,400 to 5,100	-- to --	-----
Inflow Swift Reservoir	270 to 490	-- to --	-----
Sheep Creek near White Sulphur Springs	70 to 130	33 to 61	212
S. Fk. Musselshell above Martinsdale	170 to 300	14 to 24	1,229

Peak Streamflow Forecasts (continued)

PEAK STREAMFLOW FORECASTS FOR UNREGULATED STREAMS ARE AS FOLLOWS:

	PEAK RANGE IN DAILY CFS	PEAK RANGE AS PERCENT OF AVERAGE	AVERAGE DAILY PEAK IN CFS
YELLOWSTONE RIVER			
Yellowstone at Corwin Springs	7,750 to 13,000	44 to 74	17,532
Yellowstone at Livingston	9,500 to 15,000	46 to 72	20,732
Boulder near Big Timber	2,400 to 3,900	46 to 75	5,226
Stillwater nr Absarokee	2,200 to 4,900	33 to 74	6,601
Clarks Fork near Belfry	3,100 to 5,500	40 to 71	7,706
Yellowstone at Billings	12,500 to 25,000	29 to 59	42,716

NOTE: The low number in the flow range represents the maximum daily flow that would be expected to occur with little rainfall during the peak snowmelt period. The high number in the flow range could be expected with moderate amounts of rain about the same time as maximum snowmelt runoff is occurring.

Surface Water Supply Index

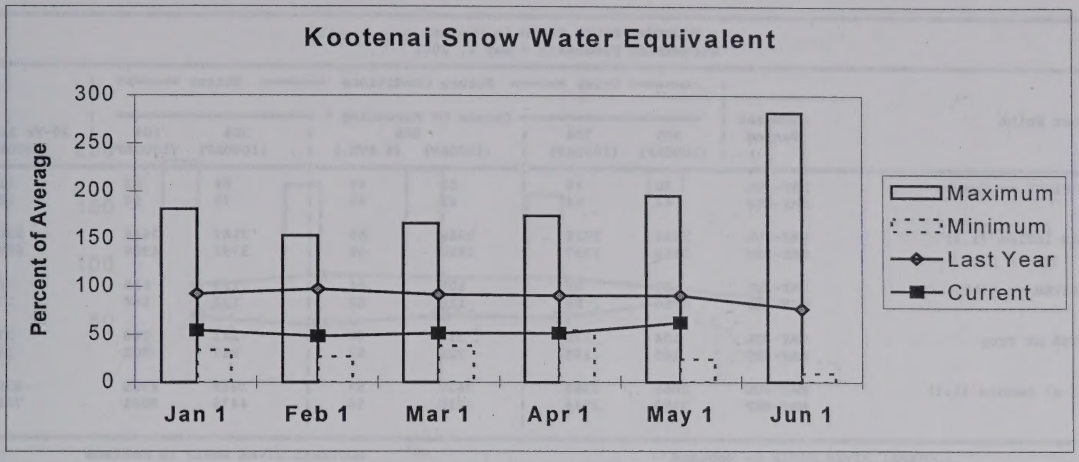
The Surface Water Supply Index (SWSI) is an indicator of surface water supply conditions for the spring and summer months. Water users that rely on mountain precipitation can use the index to evaluate seasonal surface water supplies. The SWSI accounts for mountain snowpack, mountain precipitation, streamflow, reservoir storage, and soil moisture.

SWSI RATING	SURFACE WATER CONDITION
+3.0 to +4.0	Extremely Wet
+2.0 to +3.0	Moderately Wet
+1.0 to +2.0	Slightly Wet
-1.0 to +1.0	Near Average
-1.0 to -2.0	Slightly Dry
-2.0 to -3.0	Moderately Dry
-3.0 to -4.0	Extremely Dry

SWSI	Basin
-3.5	Kootenai River at Ft. Steele (Kootenai in Canada)
-3.7	Tobacco River
-3.0	Kootenai Ft. Steele to Libby Dam
-1.8	Kootenai River below Libby Dam
-3.0	Fisher River
-3.1	Yaak River
-3.8	North Fork Flathead River
-3.8	Middle FORK Flathead River
-1.8	South Fork Flathead River
-3.1	Flathead River at Columbia Falls
-3.8	Stillwater/Whitefish Rivers
-3.0	Swan River
-2.6	Flathead River at Polson
-2.8	Mission Valley
-2.9	Little Bitterroot River
-2.1	Clark Fork River above Milltown
-3.7	Blackfoot River
-3.0	Clark Fork River above Missoula
-3.4	Bitterroot River
-3.1	Clark Fork River below Bitterroot River
-2.8	Clark Fork River below Flathead River
-2.9	Beaverhead River
-2.6	Ruby River
-3.7	Big Hole River
-2.7	Boulder River (Jefferson)
-3.2	Jefferson River
-1.6	Madison River
-2.6	Gallatin River
-2.4	Missouri River above Canyon Ferry
-1.8	Missouri River below Canyon Ferry
-2.6	Smith River
-2.3	Sun River
-3.8	Teton River
-3.7	Birch/Dupuyer Creeks
-2.4	Marias River
-3.8	Musselshell River
-1.0	Missouri River above Ft. Peck
-1.3	Missouri River below Ft. Peck
-3.9	Milk River
-3.0	Yellowstone River above Livingston
-3.4	Shields River
-3.8	Boulder River (Yellowstone)
-3.6	Stillwater River
-3.4	Rock/Red Lodge Creeks
-3.8	Clarks Fork River
-3.2	Yellowstone River above Bighorn River
-2.3	Bighorn River below Bighorn Lake
-3.4	Little Bighorn River
-2.8	Yellowstone River below Bighorn River
-3.1	Tongue River
-3.9	Powder River

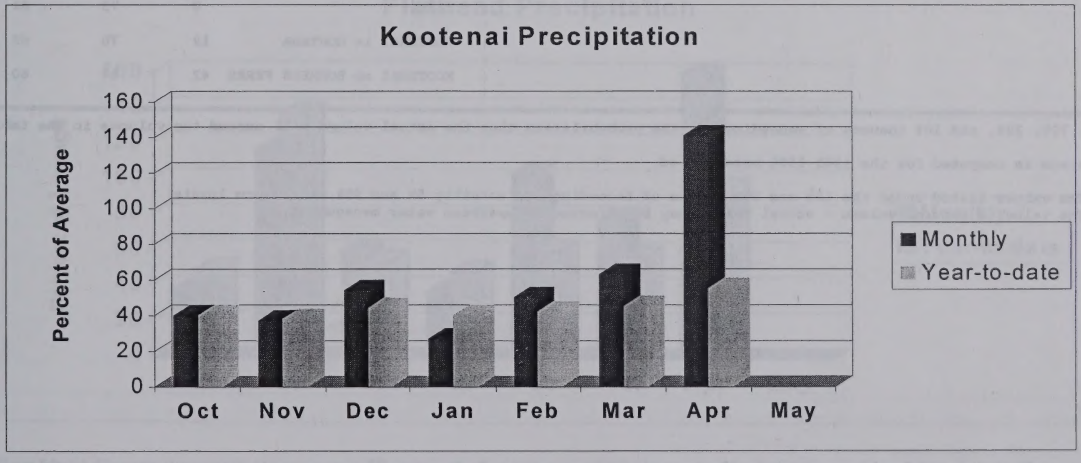
Kootenai River Basin in Montana

Snowpack conditions in the Kootenai River Basin were well below average. Snow water content was 62 percent of average and 69 percent of last year.



January maximum swe was established in 1997 and minimum was in 1977; February maximum swe was in 1997 and minimum swe was in 1977; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1974 and minimum swe was in 1977; May maximum swe was in 1974 and minimum swe was in 1977; and June maximum swe was in 1974 and minimum swe was in 1992. Average is for the period 1961 through 1990.

Mountain precipitation during April was 141 percent of average and 180 percent of last year. Valley precipitation during April was 137 percent of average and 128 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2000, was 55 percent of average and 54 percent of last year.



Lake Koocanusa storage was 123 percent of average and 141 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -3.5 in the Kootenai at Ft. Steele (Kootenai in Canada); -3.7 in the Tobacco River; -3.0 in the Kootenai Ft. Steele to Libby Dam; -1.8 in the Kootenai River below Libby Dam; -3.0 in the Fisher River; and -3.1 in the Yaak River.

KOOTENAI RIVER BASIN in Montana
Streamflow Forecasts - May 1, 2001

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
TOBACCO RIVER nr Eureka	MAY-JUL	38	46	52	47	64	82	110
	MAY-SEP	44	54	61	49	75	96	124
LIBBY RES Inflow (1,2)	MAY-JUL	2644	2826	2950	56	3167	3644	5301
	MAY-SEP	3118	3357	3520	56	3791	4388	6294
FISHER RIVER nr Libby	MAY-JUL	55	85	105	64	125	155	163
	MAY-SEP	56	88	110	62	132	164	179
YAAK RIVER nr Troy	MAY-JUL	134	179	210	57	241	286	372
	MAY-SEP	145	193	225	57	257	305	394
KOOTENAI at Leonia (1,2)	MAY-JUL	2865	3391	3630	57	3869	4395	6390
	MAY-SEP	3359	3944	4210	56	4476	5061	7466

KOOTENAI RIVER BASIN in Montana
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
LAKE KOOCANUSA	5748.0	2966.0	2110.0	2409.0

KOOTENAI RIVER BASIN in Montana
Watershed Snowpack Analysis - May 1, 2001

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
KOOTENAY in CANADA	23	64	59
KOOTENAI MAINTSTEM	4	60	58
TOBACCO	3	61	55
FISHER	5	87	76
YAAK	8	73	61
KOOTENAI in MONTANA	19	70	62
KOOTENAI ab BONNERS FERRY	42	67	60

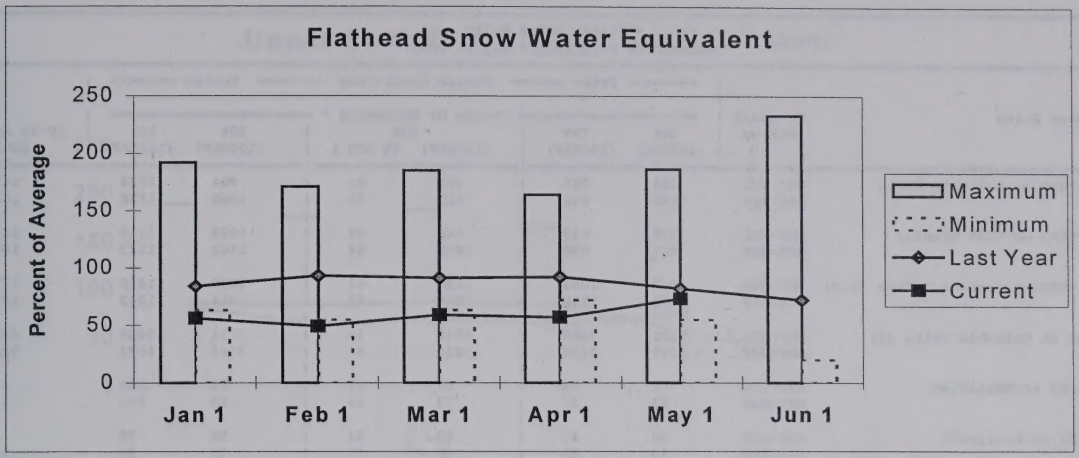
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

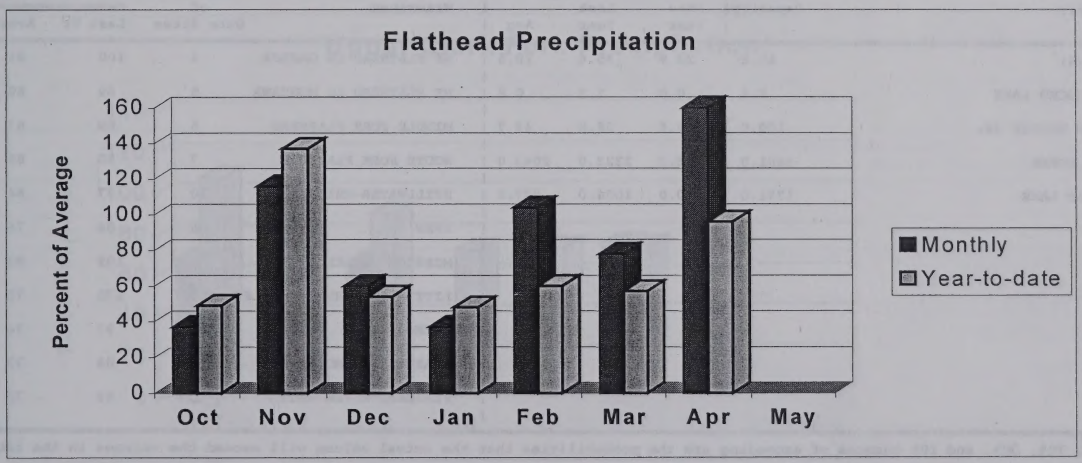
Flathead River Basin

Snowpack conditions in the Flathead River Basin were below average. Snow water content was 73 percent of average and 88 percent of last year.



January maximum swe was established in 1997 and minimum was in 1988; February maximum swe was in 1972 and minimum was in 1977; March maximum swe was in 1972 and minimum was in 1977; April maximum swe was in 1972 and minimum was in 1992; May maximum swe was in 1972 and minimum was in 1992; and June maximum swe was in 1974 and minimum was in 1992. Average is for the period 1961 through 1990.

Mountain precipitation during April was 141 percent of average and 196 percent of last year. Valley precipitation during April was 160 percent of average and 177 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2000, was 68 percent of average and 66 percent of last year.



Combined Camas reservoir storage was 80 percent of average and 64 percent of last year; combined Mission Valley reservoir storage was 86 percent of average and 110 percent of last year; Hungry Horse storage was 100 percent of average and 88 percent of last year; and Flathead Lake storage was 107 percent of average and 94 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -3.8 in the North Fork Flathead River; -3.8 in the Middle Fork Flathead River; -1.8 in the South Fork Flathead River; -3.1 in the Flathead River at Columbia Falls; -3.8 in the Stillwater/Whitefish Rivers; -3.0 in the Swan River; -2.6 in the Flathead River at Polson; -2.8 in the Mission Valley; and -2.9 in the Little Bitterroot River.

FLATHEAD RIVER BASIN
Streamflow Forecasts - May 1, 2001

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
NF FLATHEAD nr Columbia Falls	MAY-JUL	596	726	815	55	904	1034	1474
	MAY-SEP	664	811	910	55	1009	1156	1648
MF FLATHEAD nr West Glacier	MAY-JUL	750	857	930	64	1003	1110	1454
	MAY-SEP	817	938	1020	64	1102	1223	1604
HUNGRY HORSE Reservoir Inflow (1,2)	MAY-JUL	967	1064	1130	64	1230	1450	1777
	MAY-SEP	1038	1140	1210	63	1314	1543	1911
FLATHEAD at Columbia Falls (2)	MAY-JUL	2221	2649	2940	61	3231	3659	4816
	MAY-SEP	2419	2896	3220	61	3544	4021	5294
STILLWATER nr Whitefish	MAY-JUL	42	54	62	40	81	108	155
	MAY-SEP	53	67	77	44	98	129	174
WHITEFISH nr Kalispell	MAY-JUL	30	42	50	54	58	70	92
	MAY-SEP	36	50	60	57	70	84	105
SWAN RIVER nr Bigfork	MAY-JUL	294	327	350	71	373	406	491
	MAY-SEP	339	381	410	71	439	481	574
FLATHEAD Lake Inflow (1,2)	MAY-JUL	2529	3039	3270	59	3501	4011	5578
	MAY-SEP	2640	3280	3570	58	3860	4500	6114

FLATHEAD RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
CAMAS (4)	45.2	22.9	35.6	28.5
LOWER JOCKO LAKE	6.4	0.0	1.3	0.8
MISSION VALLEY (8)	100.0	42.6	38.8	49.7
HUNGRY HORSE	3451.0	2046.0	2323.0	2043.0
FLATHEAD LAKE	1791.0	1000.0	1064.0	937.2

FLATHEAD RIVER BASIN
Watershed Snowpack Analysis - May 1, 2001

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
NF FLATHEAD in CANADA	4	100	81
NF FLATHEAD in MONTANA	8	69	60
MIDDLE FORK FLATHEAD	5	89	67
SOUTH FORK FLATHEAD	7	90	85
STILLWATER-WHITEFISH	10	77	64
SWAN	8	86	76
MISSION VALLEY	5	109	83
LITTLE BITTERROOT-ASHLEY	6	170	75
JOCKO	5	97	74
FLATHEAD in MONTANA	39	88	73
FLATHEAD RIVER BASIN	43	89	73

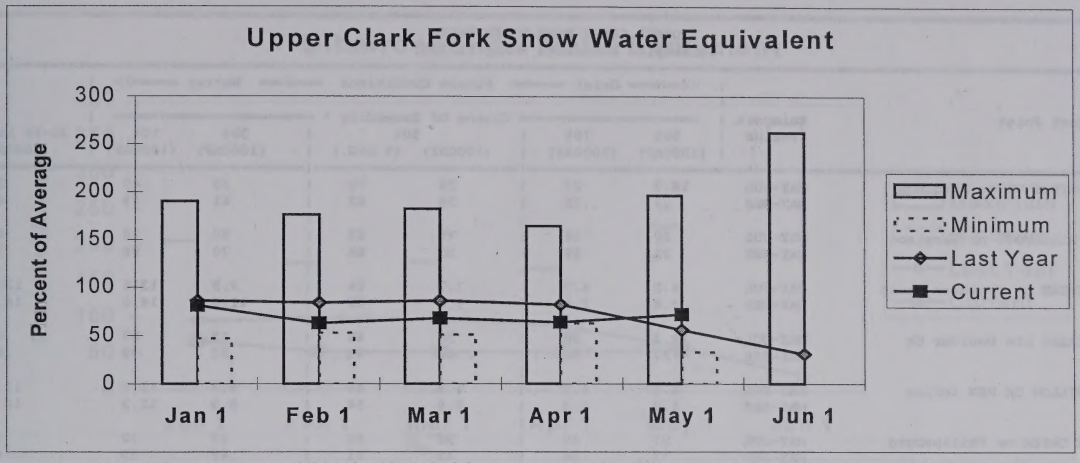
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

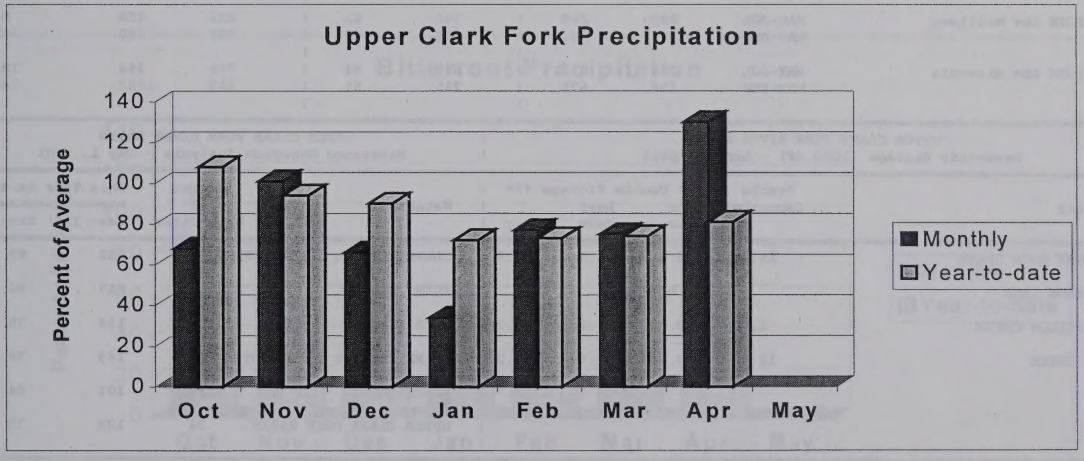
Upper Clark Fork River Basin

Snowpack conditions in the Upper Clark Fork River Basin were below average. Snow water content was 72 percent of average and 130 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum was in 1972 and minimum swe was in 1977; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1972 and minimum was in 1994; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum swe was in 1975 and minimum swe was in 1987. Average is for the period 1961 through 1990.

Mountain precipitation during April was 132 percent of average and 205 percent of last year. Valley precipitation during April was 107 percent of average and 150 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2000, was 81 percent of average and 96 percent of last year.



Lower Willow Creek storage was 97 percent of average and 78 percent of last year; and Nevada Creek storage was 84 percent of average and 74 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -2.1 in the Clark Fork River above Milltown; -3.7 in the Blackfoot River; and -3.0 in the Clark Fork River above Missoula.

UPPER CLARK FORK RIVER BASIN
Streamflow Forecasts - May 1, 2001

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
WARM SPRINGS CK at Anaconda	MAY-JUL	16.2	23	28	78	33	40	36
	MAY-SEP	23	31	36	82	41	49	44
LITTLE BLACKFOOT nr Garrison	MAY-JUL	20	34	44	63	58	78	69
	MAY-SEP	21	39	52	68	70	96	76
FLINT CREEK nr Southern Cross	MAY-JUL	4.2	6.3	7.7	64	9.9	13.1	12.1
	MAY-SEP	4.8	7.4	9.1	62	11.9	16.0	14.7
FLINT CREEK blw Boulder Ck	MAY-JUL	18.3	28	34	68	43	57	50
	MAY-SEP	27	38	46	69	57	73	66
LOWER WILLOW CK RES Inflow	MAY-JUL	1.4	4.3	6.3	55	8.3	11.2	11.4
	MAY-SEP	1.0	4.3	6.6	54	8.9	12.2	12.3
MF ROCK CREEK nr Philipsburg	MAY-JUL	27	32	36	58	42	52	62
	MAY-SEP	31	38	42	61	49	59	69
ROCK CREEK nr Clinton	MAY-JUL	104	133	152	58	181	225	264
	MAY-SEP	126	158	180	60	212	259	300
NEVADA CREEK nr Finn	MAY-JUL	1.3	5.2	7.8	51	10.4	14.3	15.2
	MAY-SEP	2.2	6.3	9.0	53	11.7	15.8	16.9
CLEARWATER nr Clearwater	MAY-JUL	78	97	110	83	123	142	133
	MAY-SEP	86	106	120	85	134	154	142
BLACKFOOT RIVER nr Bonner	MAY-JUL	235	285	320	45	392	498	714
	MAY-SEP	298	353	390	48	468	582	805
CLARK FORK abv Milltown	MAY-JUL	203	285	340	62	432	568	549
	MAY-SEP	247	341	405	62	508	660	652
CLARK FORK abv Missoula	MAY-JUL	406	572	685	54	798	964	1263
	MAY-SEP	498	675	795	55	915	1092	1457

UPPER CLARK FORK RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
EAST FORK ROCK CREEK	15.6	5.9	11.7	9.9
GEORGETOWN LAKE		NO REPORT		
LOWER WILLOW CREEK	4.9	3.2	4.1	3.3
NEVADA CREEK	12.6	8.6	11.6	10.2

UPPER CLARK FORK RIVER BASIN
Watershed Snowpack Analysis - May 1, 2001

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
CLARK FORK ab FLINT CREEK	13	152	82
FLINT CREEK	6	217	85
ROCK CREEK	5	134	75
CLARK FORK ab BLACKFOOT	21	159	79
BLACKFOOT	15	101	64
UPPER CLARK FORK BASIN	34	129	73

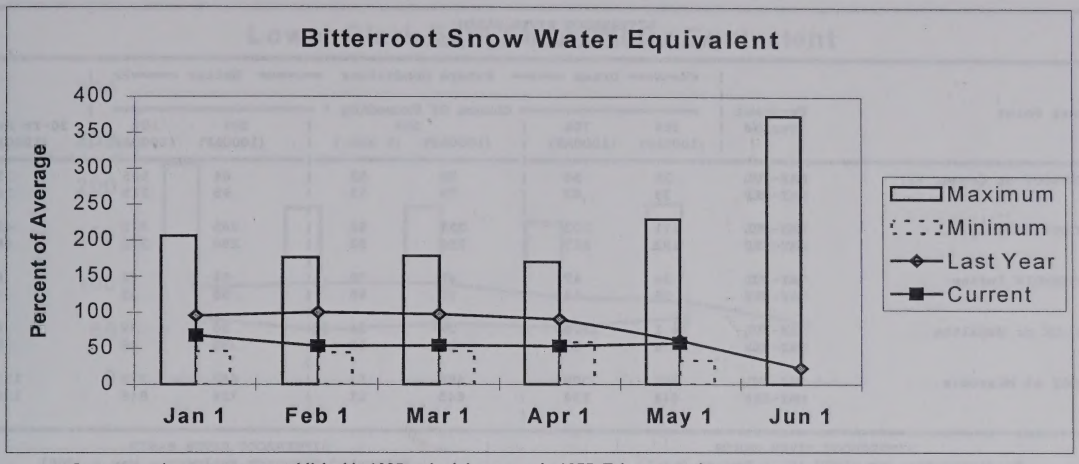
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

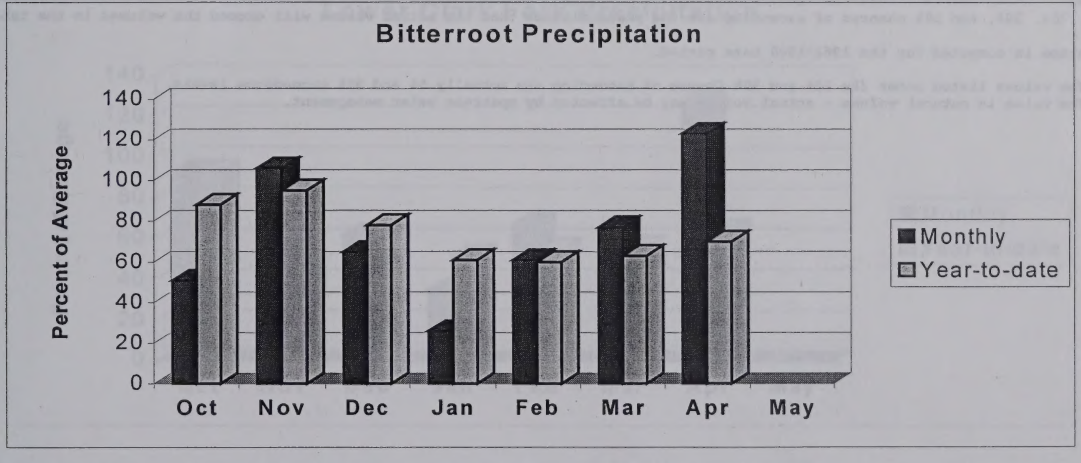
Bitterroot River Basin

Snowpack conditions in the Bitterroot River Basin were well below average. Snow water content was 57 percent of average and 93 percent of last year.



January maximum swe was established in 1997 and minimum swe in 1977; February maximum swe was in 1972 and minimum was in 1977; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1972 and minimum swe was in 1977; May maximum swe was in 1972 and minimum swe was in 1987; and June maximum swe was 1972 and 1974 and minimum swe was in 1987 and 1992. Average is for the period 1961 through 1990.

Mountain precipitation during April was 117 percent of average and 209 percent of last year. Valley precipitation during April was 158 percent of average and 318 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2000, was 70 percent of average and 77 percent of last year.



Painted Rocks Lake storage was 84 percent of average and 71 percent of last year and Como storage was 89 percent of average and 79 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -3.4 in the Bitterroot River.

BITTERROOT RIVER BASIN
Streamflow Forecasts - May 1, 2001

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
WF BITTERROOT nr Conner (2)	MAY-JUL	35	56	70	52	84	105	134
	MAY-SEP	39	63	79	53	95	119	148
BITTERROOT nr Darby	MAY-JUL	171	203	225	52	265	323	435
	MAY-SEP	193	227	250	52	290	350	484
COMO RESERVOIR Inflow	MAY-JUL	34	42	48	70	54	62	69
	MAY-SEP	35	44	50	69	56	65	73
SKALKAHO CK nr Hamilton	MAY-JUL	14.1	19.4	23	54	30	39	43
	MAY-SEP	17.4	23	28	55	35	46	50
BITTERROOT at Missoula	MAY-JUL	395	508	585	51	662	775	1150
	MAY-SEP	444	564	645	51	726	846	1265

BITTERROOT RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
PAINTED ROCKS LAKE	31.7	16.9	23.7	20.0
COMO	34.9	17.9	22.8	20.2

BITTERROOT RIVER BASIN
Watershed Snowpack Analysis - May 1, 2001

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
WEST FORK BITTERROOT	3	99	65
EAST SIDE BITTERROOT	5	114	62
WEST SIDE BITTERROOT	3	75	48
BITTERROOT RIVER BASIN	10	93	57

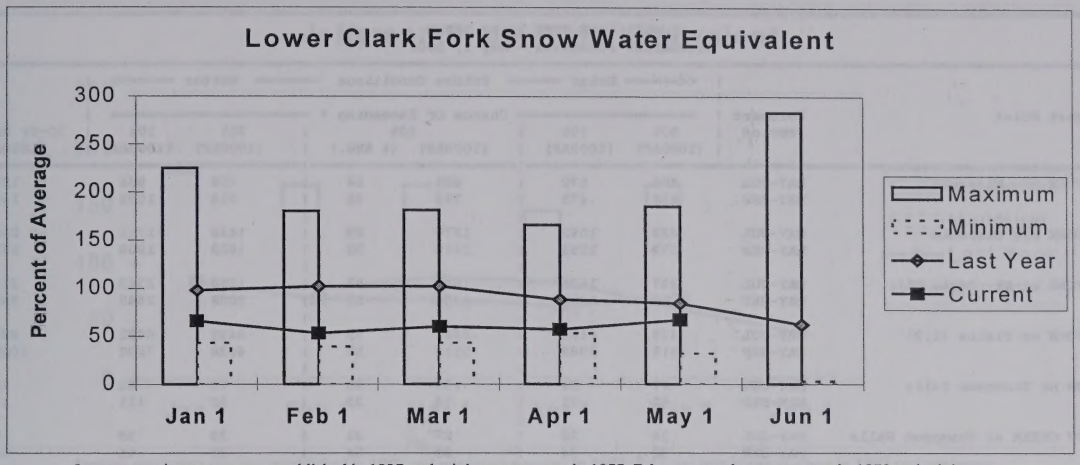
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

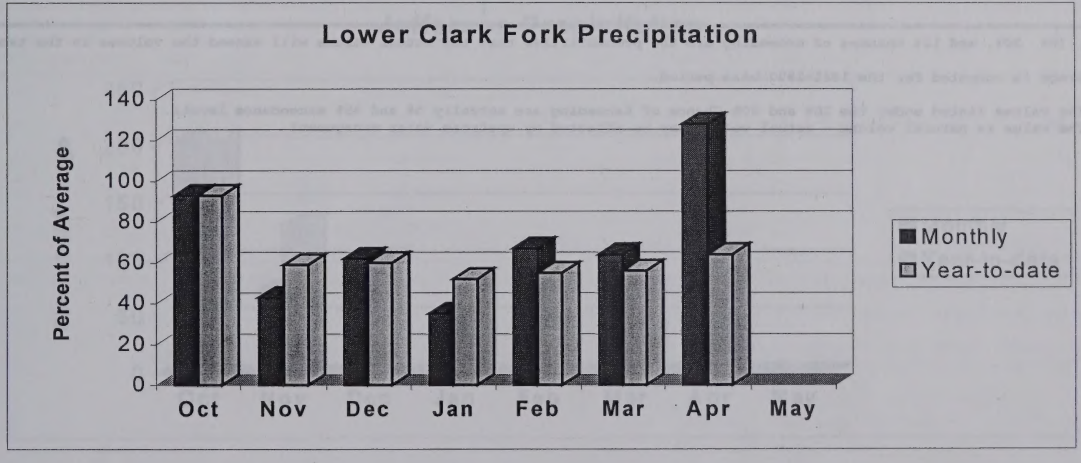
Lower Clark Fork River Basin

Snowpack conditions in the Lower Clark Fork River Basin were below above average. Snow water content was 67 percent of average and 79 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1972 and minimum swe was in 1977; March maximum swe was in 1972 and minimum was in 1977; April maximum swe was in 1972 and minimum swe was in 1981; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum swe was in 1974 and minimum swe was in 1977. Average is for the period 1961 through 1990.

Mountain precipitation during April was 125 percent of average and 154 percent of last year. Valley precipitation during April was 152 percent of average and 118 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2000, was 64 percent of average and 64 percent of last year.



Noxon Rapids storage was 155 percent of average and 101 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -3.1 in the Clark Fork River below Bitterroot River and -2.8 in the Clark Fork River below Flathead River.

LOWER CLARK FORK RIVER BASIN
Streamflow Forecasts - May 1, 2001

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
CLARK FORK abv Missoula	MAY-JUL	406	572	685	54	798	964	1263
	MAY-SEP	498	675	795	55	915	1092	1457
CLARK FORK blw Missoula	MAY-JUL	829	1092	1270	53	1448	1711	2413
	MAY-SEP	972	1251	1440	53	1629	1908	2724
CLARK FORK at St. Regis (1)	MAY-JUL	937	1421	1640	52	1859	2343	3152
	MAY-SEP	1058	1602	1850	52	2098	2642	3561
CLARK FORK nr Plains (1,2)	MAY-JUL	3439	4485	4960	55	5435	6481	9052
	MAY-SEP	3818	4982	5510	55	6038	7202	10080
THOMPSON nr Thompson Falls	MAY-JUL	47	54	59	35	73	93	169
	MAY-SEP	62	71	76	39	90	111	196
PROSPECT CREEK at Thompson Falls	MAY-JUL	26	28	29	31	33	39	94
	MAY-SEP	32	34	35	34	39	45	103
CLARK FK at Whitehorse Rpds (1,2)	MAY-JUL	3758	5004	5570	56	6136	7382	10020
	MAY-SEP	4177	5568	6200	55	6832	8223	11200

LOWER CLARK FORK RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
NOXON RAPIDS	335.0	324.4	320.6	208.7

LOWER CLARK FORK RIVER BASIN
Watershed Snowpack Analysis - May 1, 2001

Watershed	Number of Data Sites	This Year as % of Last Yr	This Year as % of Average
LOWER CLARK FORK BASIN	12	80	67

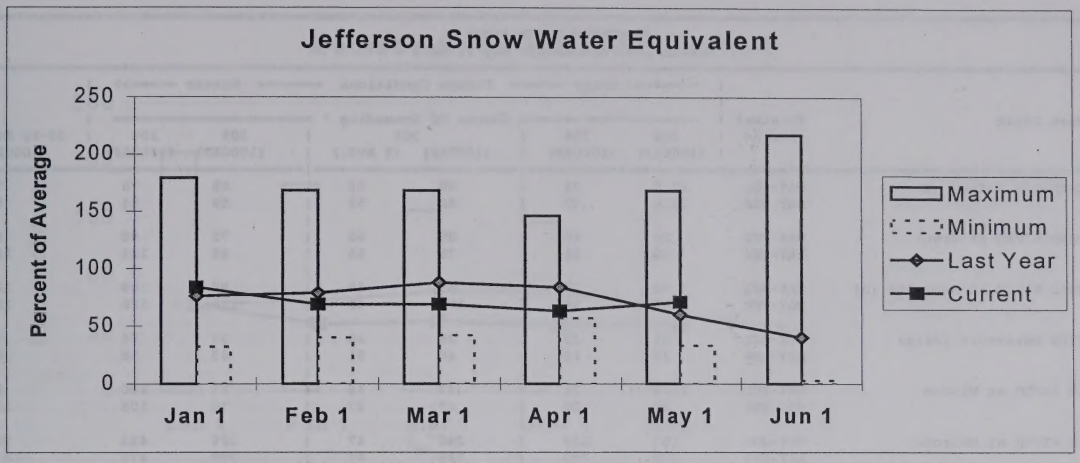
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

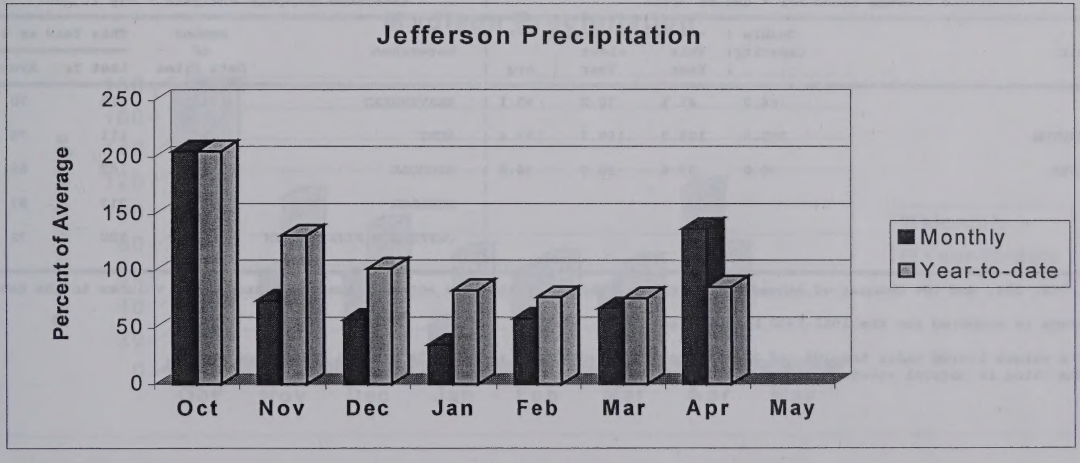
Jefferson River Basin

Snowpack conditions in the Jefferson River Basin were below average. Snow water content was 71 percent of average and 120 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1972 and minimum was in 1977; April maximum swe was in 1972 and minimum was in 1977; May maximum swe was in 1975 and minimum swe was in 1977; and June maximum swe was in 1982 and minimum in 1987. Average is for the period 1961 through 1990.

Mountain precipitation during April was 140 percent of average and 209 percent of last year. Valley precipitation during April was 86 percent of average and 243 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2000, was 86 percent of average and 106 percent of last year.



Lima storage was 75 percent of average and 59 percent of last year; Clark Canyon storage was 77 percent of average and 74 percent of last year; and Ruby River storage was 104 percent of average and 99 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -2.9 in the Beaverhead River; -2.6 in the Ruby River; -3.7 in the Big Hole River; -2.7 in the Boulder River; and -3.2 in the Jefferson River as a whole.

JEFFERSON RIVER BASIN
Streamflow Forecasts - May 1, 2001

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
LIMA RESERVOIR Inflow (2)	MAY-JUL	18.8	31	40	56	55	78	72
	MAY-SEP	19.6	33	42	53	59	84	80
BEAVERHEAD RIVER nr Grant	MAY-JUL	24	46	60	65	75	96	92
	MAY-SEP	26	55	75	65	95	124	115
BEAVERHEAD RIVER at Barretts (2)	MAY-JUL	61	75	85	69	95	109	124
	MAY-SEP	82	96	105	68	114	128	155
RUBY RIVER Reservoir Inflow	MAY-JUL	31	33	35	48	39	44	73
	MAY-SEP	40	43	45	51	49	55	89
BIG HOLE RIVER at Wisdom	MAY-JUL	16.6	32	43	46	66	100	93
	MAY-SEP	20	36	47	47	70	105	100
BIG HOLE RIVER nr Melrose	MAY-JUL	183	229	260	47	326	424	555
	MAY-SEP	208	260	295	48	368	476	612
BOULDER RIVER nr Boulder	MAY-JUL	24	40	50	67	66	89	75
	MAY-SEP	26	43	55	68	72	98	81
WILLOW CREEK Reservoir Inflow	MAY-JUL	2.1	4.4	6.0	40	9.9	15.8	15.1
	MAY-SEP	2.5	5.5	7.5	43	12.2	19.1	17.4
JEFFERSON RIVER nr Three Forks (2)	MAY-JUL	181	252	300	40	421	598	749
	MAY-SEP	204	282	335	40	467	662	841

JEFFERSON RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
LIMA	84.0	41.1	70.2	55.1
CLARK CANYON	255.6	125.2	169.7	162.4
RUBY RIVER	38.8	37.6	38.0	36.3

JEFFERSON RIVER BASIN
Watershed Snowpack Analysis - May 1, 2001

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
BEAVERHEAD	15	118	70
RUBY	10	111	75
BIGHOLE	16	102	69
BOULDER	8	217	87
JEFFERSON RIVER BASIN	41	120	72

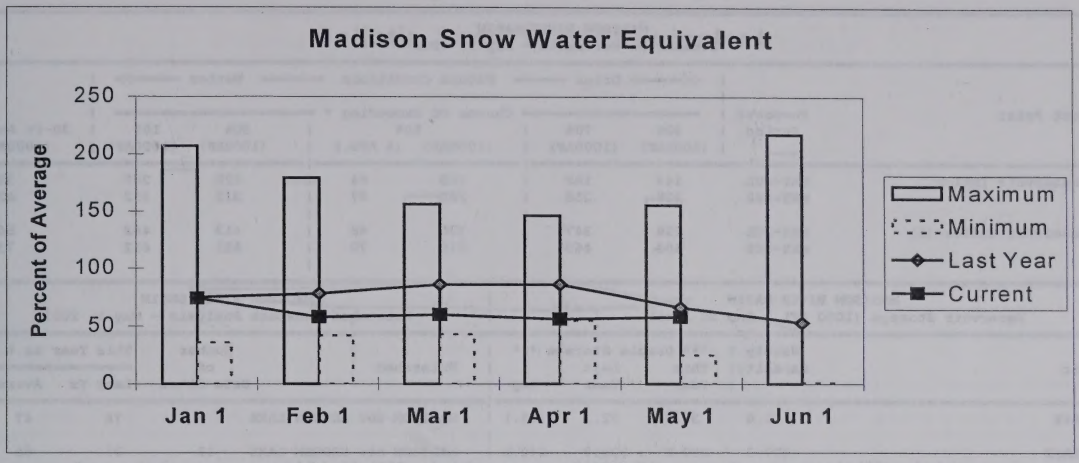
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

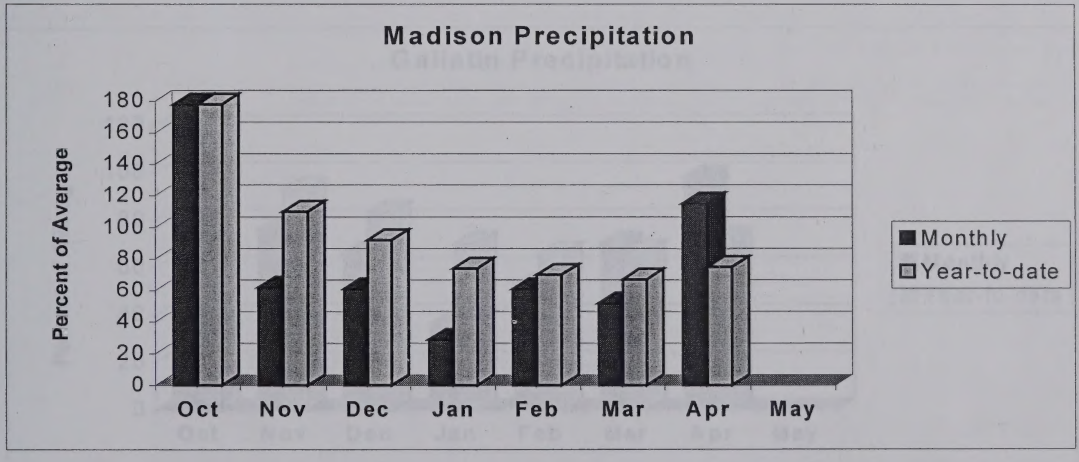
Madison River Basin

Snowpack conditions in the Madison River Basin were well below average. Snow water content was 58 percent of average and 89 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1997 and minimum was in 1977; April maximum swe was in 1997 and minimum was in 1977; May maximum swe was in 1997 and minimum swe was in 1977; and June maximum swe was in 1995 and minimum in 1987. Average is for the period 1961 through 1990.

Mountain and valley precipitation during April was 115 percent of average and 169 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2000, was 75 percent of average and 89 percent of last year.



Ennis Lake storage was 88 percent of average and 97 percent of last year and Hebgen Lake storage was 118 percent of average and 95 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -1.6 for the Madison River.

MADISON RIVER BASIN
Streamflow Forecasts - May 1, 2001

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======== Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
HEBGEN Reservoir Inflow	MAY-JUL	149	182	205	64	228	261	321
	MAY-SEP	218	258	285	67	312	352	428
ENNIS Reservoir Inflow (2)	MAY-JUL	298	347	380	68	413	462	562
	MAY-SEP	408	469	510	70	551	612	731

MADISON RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
ENNIS LAKE	41.0	31.0	32.1	35.1
HEBGEN LAKE	377.5	290.0	305.7	246.1

MADISON RIVER BASIN
Watershed Snowpack Analysis - May 1, 2001

Watershed	Number of Data Sites	This Year as % of Last Yr	This Year as % of Average
MADISON abv HEBGEN LAKE	6	76	47
MADISON blw HEBGEN LAKE	11	95	65
MADISON RIVER BASIN	17	89	58

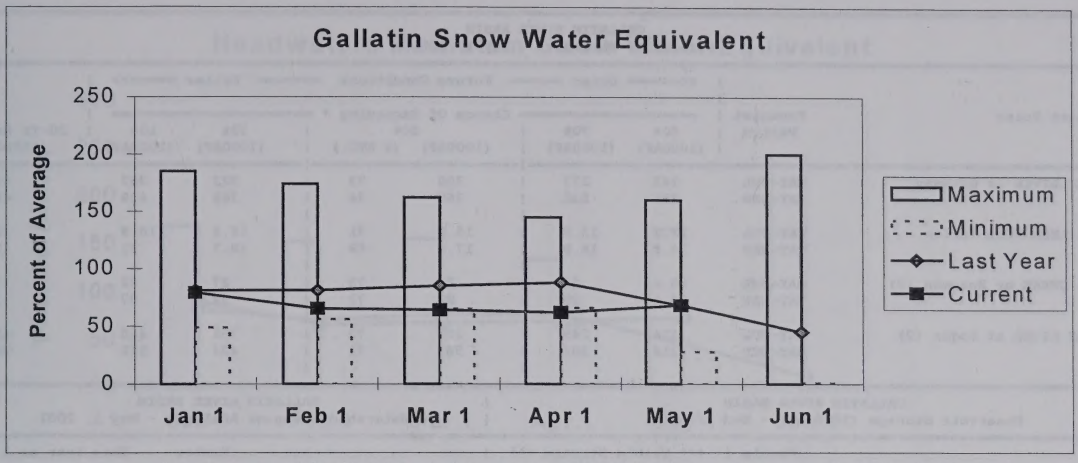
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

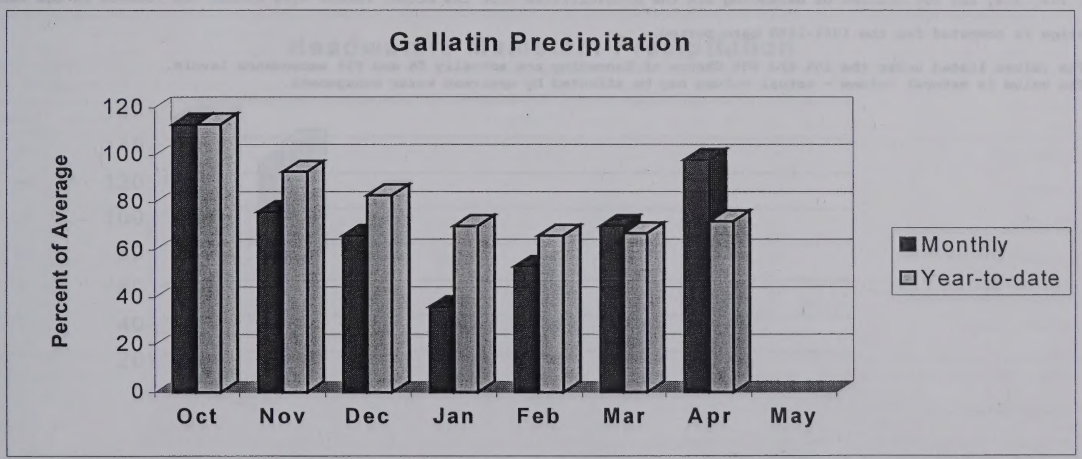
Gallatin River Basin

Snowpack conditions in the Gallatin River Basin were well below average. Snow water content was 68 percent of average and 106 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1966; February maximum swe was in 1997 and minimum was in 1981; March maximum swe was in 1997 and minimum was in 1977 and 1987; April maximum swe was in 1997 and minimum was in 1987; May maximum swe was in 1970 and minimum swe was in 1987; and June maximum swe was in 1975 and minimum in 1987. Average is for the period 1961 through 1990.

Mountain precipitation during April was 101 percent of average and 140 percent of last year. Valley precipitation during April was 74 percent of average and 88 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2000, was 83 percent of average and 116 percent of last year.



Middle Creek storage was 113 percent of average and 108 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -2.6 for the Gallatin River.

GALLATIN RIVER BASIN
Streamflow Forecasts - May 1, 2001

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
GALLATIN RIVER nr Gateway	MAY-JUL	243	277	300	73	323	357	410
	MAY-SEP	291	332	360	74	388	429	485
HYALITE RESERVOIR Inflow	MAY-JUL	12.2	13.9	15.0	71	16.6	18.9	21
	MAY-SEP	14.1	15.8	17.0	68	18.7	21	25
HYALITE CREEK nr Bozeman (2)	MAY-JUL	16.4	21	24	73	27	32	33
	MAY-SEP	19.4	25	28	72	32	37	39
GALLATIN RIVER at Logan (2)	MAY-JUL	174	249	300	70	351	426	429
	MAY-SEP	218	306	365	71	424	512	512

GALLATIN RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
MIDDLE CREEK	10.2	7.9	7.3	7.0

GALLATIN RIVER BASIN
Watershed Snowpack Analysis - May 1, 2001

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
UPPER GALLATIN	7	91	66
HYALITE	3	89	68
BRIDGER	3	204	76
GALLATIN RIVER BASIN	13	106	68

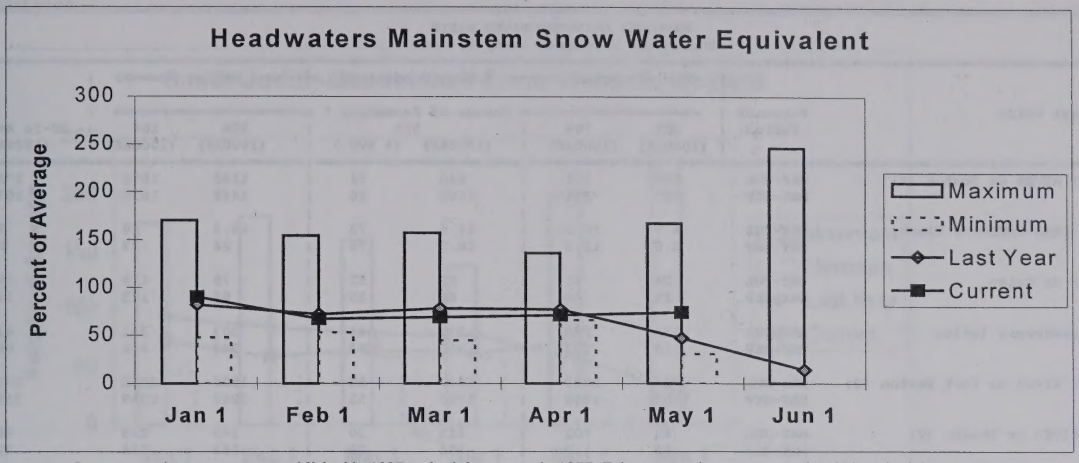
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

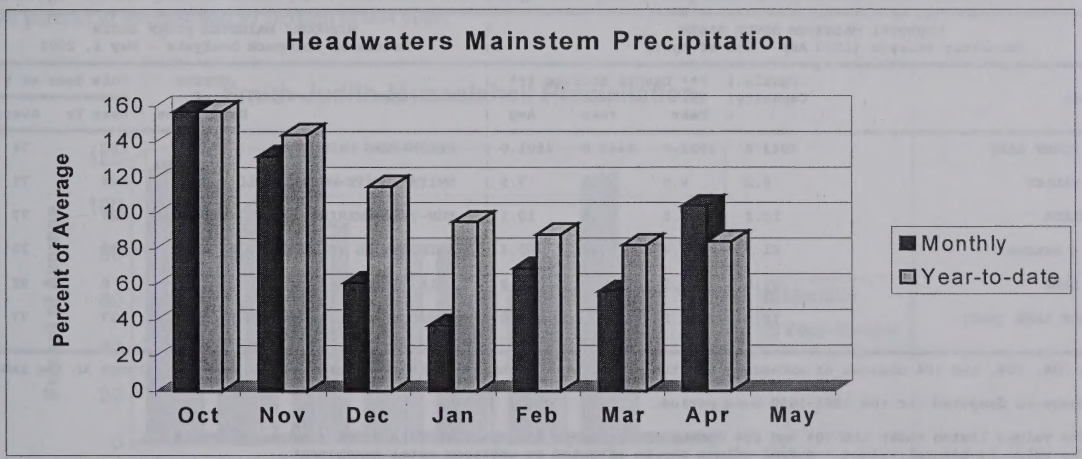
Missouri Mainstem River Basin

Snowpack conditions in the Headwaters Missouri Mainstem River Basin were below average. Snow water content was 74 percent of average and 158 percent of last year.



January maximum swe was established in 1997 and minimum swe in 1977; February maximum swe was in 1972 and minimum swe was in 1977; March maximum swe in 1972 and minimum swe was in 1977; April maximum swe was in 1972 and minimum swe was in 1961; May maximum swe was in 1975 and minimum swe was in 1977; and June maximum swe was in 1982 and minimum swe was in 1992. Average is for the period 1961 through 1990.

Mountain precipitation during April was 122 percent of average and 177 percent of last year. Valley precipitation during April was 89 percent of average and 146 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2000, was 86 percent of average and 128 percent of last year.



Canyon Ferry Lake storage was 101 percent of average and 105 percent of last year; Helena Valley storage was 120 percent of average and 101 percent of last year; Lake Helena storage was 114 percent of average and 104 percent of last year; Hauser & Helena storage was 107 percent of average and 101 percent of last year; Holter Lake storage was 110 percent of average and 101 percent of last year; and Fort Peck Lake storage was 88 percent of average and 87 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -2.4 in the Missouri River above Canyon Ferry; -1.8 in the Missouri River below Canyon Ferry; -1.0 in the Missouri River above Fort Peck; and -1.3 in the Missouri River below Fort Peck.

MISSOURI MAINSTEM RIVER BASIN
Streamflow Forecasts - May 1, 2001

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
MISSOURI RIVER at Toston (2)	MAY-JUL	595	801	940	54	1198	1579	1730
	MAY-SEP	787	851	1160	56	1469	1636	2071
PRICKLY PEAR CREEK nr Clancy	MAY-JUL	4.7	10.6	14.5	73	19.9	28	20
	MAY-SEP	6.5	13.3	18.0	75	24	33	24
DEARBORN nr Criag	MAY-JUL	24	42	55	52	79	115	106
	MAY-SEP	25	46	60	55	86	123	110
GIBSON Reservoir Inflow	MAY-JUL	179	233	270	61	307	361	441
	MAY-SEP	216	272	310	63	348	404	489
MISSOURI RIVER at Fort Benton (2)	MAY-JUL	723	1090	1340	52	1820	2526	2597
	MAY-SEP	1403	1540	1750	55	2269	2359	3188
MARIAS RIVER nr Shelby (2)	MAY-JUL	82	102	115	30	160	225	387
	MAY-SEP	93	112	125	29	169	234	428
MISSOURI RIVER at Virgelle (2)	MAY-JUL	872	1270	1540	51	2070	2850	3030
	MAY-SEP	1534	1753	1970	54	2374	2520	3652
MISSOURI RIVER nr Landusky (2)	MAY-JUL	1002	1403	1675	51	2209	2996	3279
	MAY-SEP	1664	1967	2160	55	2615	2773	3962
MISSOURI RIVER below Fort Peck (2)	MAY-JUL	894	1341	1645	49	2265	3177	3327
	MAY-SEP	1399	1823	1970	52	2306	2533	3781
LAKE SAKAKAWEA Inflow (2)	MAY-JUL	2870	3980	4735	58	6036	7951	8209
	MAY-SEP	4153	4948	5510	57	6664	7533	9658

MISSOURI MAINSTEM RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
CANYON FERRY LAKE	2043.0	1522.0	1449.0	1501.0
HELENA VALLEY	9.2	9.0	8.9	7.5
LAKE HELENA	10.4	11.5	11.1	10.1
HAUSER & HELENA	61.9	64.4	63.6	60.4
HOLTER LAKE	81.9	81.3	80.8	73.9
FORT PECK LAKE (MAF)	18.9	13.2	15.1	15.0

MISSOURI MAINSTEM RIVER BASIN
Watershed Snowpack Analysis - May 1, 2001

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
HEADWATERS MAINSTEM	9	160	74
SMITH-JUDITH-MUSSELSHELL	12	126	71
SUN-TETON-MARIAS	14	124	77
MAINSTEM ab FT PECK RES	34	132	75
MILK RIVER BASIN	4	0	92
MISSOURI MAINSTEM BASIN	37	137	77

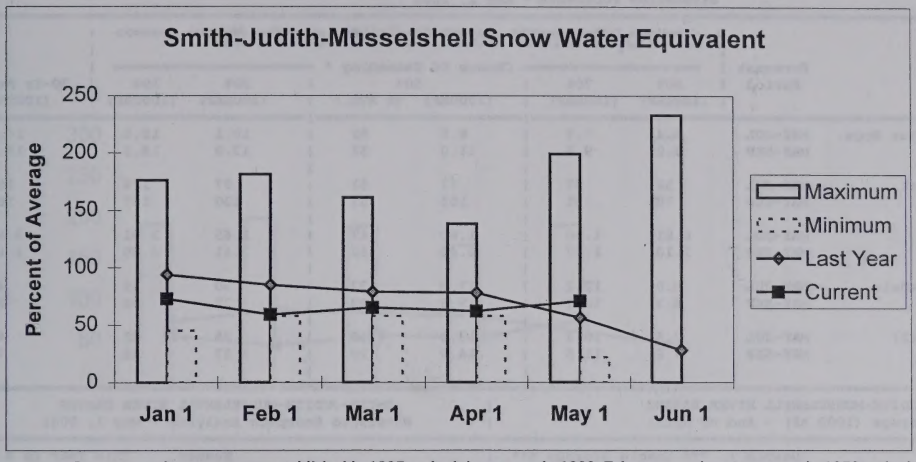
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

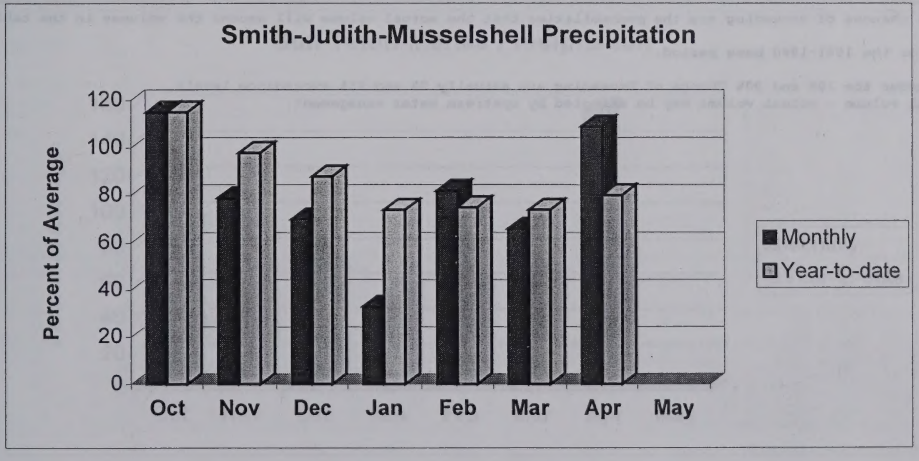
Smith-Judith-Musselshell River Basins

Snowpack conditions in the Smith-Judith-Musselshell River Basins were below average. Snow water content in the Smith River Basin was 66 percent of average and 125 percent of last year; in the Judith River Basin was 76 percent of average and 109 percent of last year; and in the Musselshell Basin River was 58 percent of average and 156 percent of last year.



January maximum swe was established in 1997 and minimum swe in 1988; February maximum swe was in 1978 and minimum swe was in 1987; March maximum swe was in 1978 and minimum swe was in 1987; April maximum swe was in 1970 and minimum swe was in 1992; and May maximum swe was in 1970 and minimum swe was in 1987; and June maximum swe was in 1982 and minimum swe was in 1992. Average is for the period 1961 through 1990.

Mountain and valley precipitation during April in the Smith-Belts was 126 percent of average and 171 percent of last year; in the Judith was 98 percent of average and 91 percent of last year; and in the Musselshell was 112 percent of average and 119 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2000, was 80 percent of average and 97 percent of last year.



Smith River storage was 41 percent of average and 58 percent of last year; Bair storage was 40 percent of average and 79 percent of last year; Martinsdale storage was 27 percent of average and 31 percent of last year; and Deadman's Basin was 49 percent of average and 49 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -2.6 in the Smith River and -3.8 in the Musselshell River.

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Streamflow Forecasts - May 1, 2001

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
SHEEP CREEK nr White Sulphur Spgs.	MAY-JUL	6.4	7.7	8.5	52	10.1	12.5	16.3
	MAY-SEP	8.2	9.9	11.0	57	13.0	15.9	19.2
SMITH RIVER abv Eagle Creek	MAY-JUL	52	67	77	51	97	126	150
	MAY-SEP	70	91	105	57	130	167	185
NF MUSSELSHELL nr Delpine	MAY-JUL	0.81	1.40	1.80	47	2.65	3.91	3.80
	MAY-SEP	1.10	1.87	2.40	52	3.41	4.90	4.60
SF MUSSELSHELL abv Martinsdale	MAY-JUL	5.0	12.2	17.0	37	30	49	46
	MAY-SEP	6.3	14.1	19.5	39	33	54	50
MUSSELSHELL at Harlowton (2)	MAY-JUL	7.5	10.8	13.0	19	25	42	67
	MAY-SEP	7.8	11.5	14.0	20	27	45	70

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
SMITH RIVER	10.6	3.7	6.4	9.1
NEWLAN CREEK		NO REPORT		
BAIR	7.0	2.3	2.9	5.8
MARTINSDALE	23.1	3.4	10.8	12.4
DEADMAN'S BASIN	72.2	26.7	54.9	54.4

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Watershed Snowpack Analysis - May 1, 2001

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
SMITH	6	125	66
JUDITH	6	109	76
MUSSELSHELL	5	156	58
SMITH-JUDITH-MUSSELSHELL	12	126	71

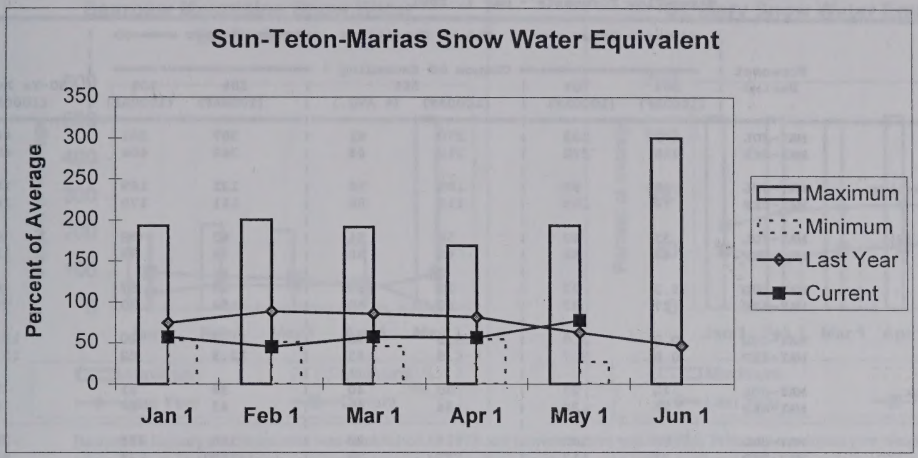
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

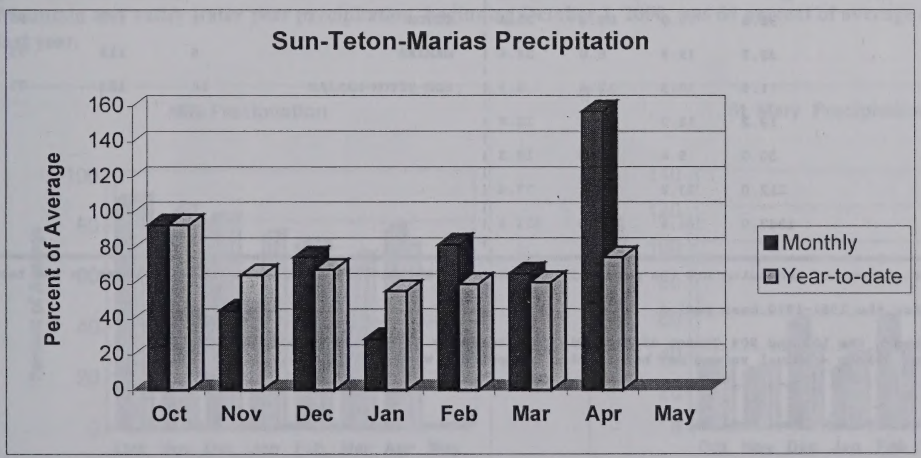
Sun-Teton-Marias River Basins

Snowpack conditions in the Sun-Teton-Marias River Basins were below average. Snow water content in the Sun River Basin was 82 percent of average and 134 percent of last year; in the Teton River Basin was 90 percent of average and 177 percent of last year; and in the Marias River Basin was 73 percent of average and 113 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1972 and minimum swe was in 1977; March maximum swe was in 1972 and minimum swe was in 1984; April maximum swe was in 1972 and minimum swe was in 1984; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum was in 1982 and minimum swe was in 1992. Average is for the period 1961 through 1990.

Mountain and valley precipitation during April in the Sun was 161 percent of average and 357 percent of last year; in the Teton was 139 percent of average and 264 percent of last year; and in the Marias was 164 percent of average and 245 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2000, was 75 percent of average and 79 percent of last year.



Gibson storage was 65 percent of average and 45 percent of last year; Pishkun storage was 75 percent of average and 65 percent of last year; Willow Creek storage was 81 percent of average and 249 percent of last year; Lower Two Medicine Lake storage was 116 percent of average and 83 percent of last year; Four Horns Lake storage was 102 percent of average and 107 percent of last year; Swift storage was 51 percent of average and 49 percent of last year; Lake Frances storage was 35 percent of average and 93 percent of last year; and Lake Elwell (Tiber) storage was 115 percent of average and 90 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section. Surface Water Supply Index (SWSI) was -2.3 in the Sun River; -3.8 in the Teton River; -3.7 in the Birch/Dupuyer Creeks; and -2.4 in the Marias River.

SUN-TETON-MARIAS RIVER BASINS
Streamflow Forecasts - May 1, 2001

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
GIBSON Reservoir Inflow	MAY-JUL	179	233	270	61	307	361	441
	MAY-SEP	216	272	310	63	348	404	489
TWO MEDICINE RIVER nr Browning	MAY-JUL	69	90	105	56	131	169	187
	MAY-SEP	78	100	115	58	141	179	200
BADGER CREEK nr Browning (2)	MAY-JUL	33	43	50	54	63	82	93
	MAY-SEP	43	54	62	56	76	96	110
SWIFT RESERVOIR Inflow	MAY-JUL	19.3	27	33	53	43	57	61
	MAY-SEP	27	37	43	59	54	70	73
DUPUYER CREEK nr Valier	MAY-JUL	0.0	3.0	5.5	42	11.5	20	13.1
	MAY-SEP	0.0	3.7	6.5	43	12.9	22	15.0
CUT BANK CREEK at Cut Bank	MAY-JUL	22	27	30	40	38	51	75
	MAY-SEP	25	30	34	41	43	57	84
MARIAS RIVER nr Shelby (2)	MAY-JUL	82	102	115	30	160	225	387
	MAY-SEP	93	112	125	29	169	234	428
TETON nr Dutton	MAY-JUL	1.1	2.5	3.4	7	16.6	36	49
	MAY-SEP	2.0	3.6	4.6	8	17.5	37	58

SUN-TETON-MARIAS RIVER BASINS
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
GIBSON	99.1	36.9	81.8	57.2
PISHKUN	32.0	19.0	29.4	25.4
WILLOW CREEK	32.2	19.9	8.0	24.6
LOWER TWO MEDICINE LAKE	11.9	10.3	12.4	8.9
FOUR HORNS LAKE	19.2	13.0	12.1	12.8
SWIFT	30.0	9.4	19.3	18.3
LAKE FRANCES	112.0	27.2	29.1	77.6
LAKE ELWELL (TIBER)	1347.0	701.4	782.9	611.4

SUN-TETON-MARIAS RIVER BASINS
Watershed Snowpack Analysis - May 1, 2001

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
SUN	7	134	82
TETON	4	177	90
MARIAS	6	113	73
SUN-TETON-MARIAS	14	124	77

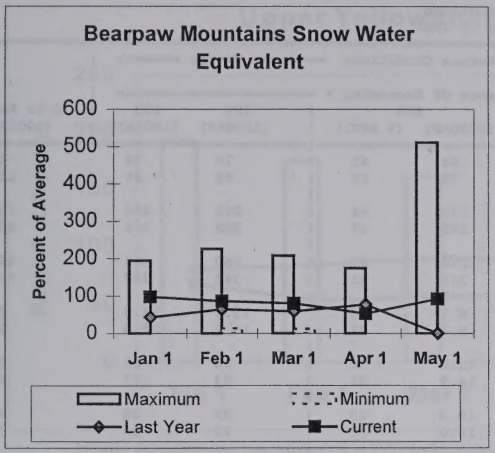
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

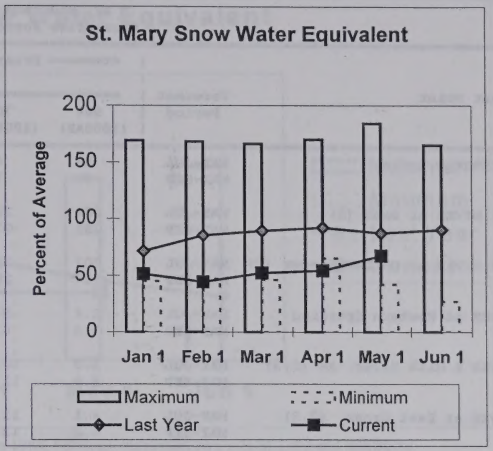
The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

St. Mary and Milk River Basins

Snowpack conditions in the St. Mary and Milk River Basins were below average. Snow water content in the Saint Mary River Basin was 67 percent of average and 77 percent of last year. The Milk River Basin (Bearpaw Mountains) was 92 percent of average.

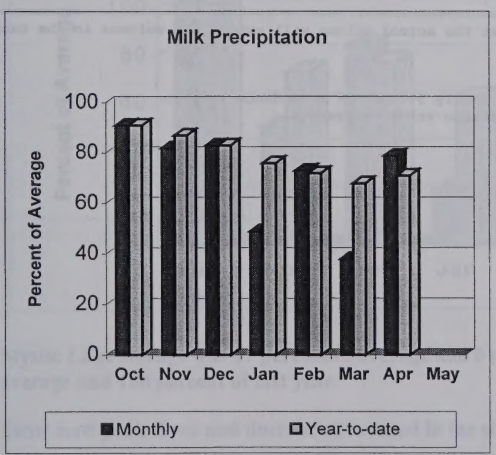


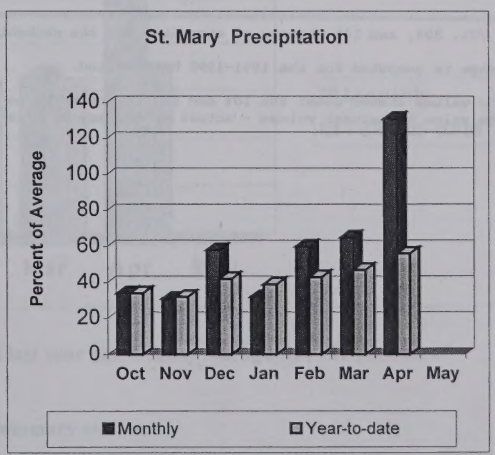


Bearpaw - January maximum swe was established in 1978 and minimum swe was in 1981; February maximum swe was 1978 and minimum was in 1973; March maximum swe was 1978 and minimum swe was 1981; April maximum swe was in 1975 and minimum swe was in 1983; May maximum swe was 1975 and the minimum has occurred in several years. Average is for the period 1961 through 1990.

St. Mary - January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1972 and minimum swe was in 1977; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1972 and minimum swe was in 1992; May maximum swe was in 19972 and minimum swe was in 1977; and June maximum swe was in 1991 and minimum swe was 1992. Average is for the period 1961 through 1990.

Mountain and valley precipitation in the St. Mary River Basin during April was 131 percent of average and 172 percent of last year; and in the Milk River Basin during April was 79 percent of average and 84 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2000, was 64 percent of average and 66 percent of last year.





Lake Sherburne storage was 37 percent of average and 97 percent of last year; Fresno storage was 9 percent of average and 11 percent of last year; Beaver Creek was 104 percent of average and 87 percent of last year; and Nelson storage was 48 percent of average and 57 percent of last year.

Surface Water Supply Index (SWSI) was -3.9 for the Milk River.

ST. MARY and MILK RIVER BASINS
Streamflow Forecasts - May 1, 2001

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
LAKE SHERBURNE Inflow	MAY-JUL	55	60	64	65	70	78	98
	MAY-SEP	68	75	79	69	85	95	115
ST. MARY RIVER nr Babb (2)	MAY-JUL	204	225	239	64	261	294	371
	MAY-SEP	251	277	295	67	322	361	439
ST. MARY RIVER at US/CAN Border (2)	MAY-JUL	207	233	250	58	280	324	429
	MAY-SEP	257	289	310	61	345	397	506
MILK RIVER at Western Crossing	MAY-JUL	2.4	5.2	6.9	29	13.3	14.0	24
	MAY-SEP	3.3	6.0	8.3	31	15.6	16.9	27
MILK RIVER @ Milk River, AB (2,3)	MAY-JUL	5.3	10.8	12.8	34	20	24	38
	MAY-SEP	5.8	11.9	14.9	36	23	27	41
MILK RIVER at East Cross. (2,3)	MAY-JUL	4.1	11.4	13.3	29	22	26	45
	MAY-SEP	4.2	13.8	16.0	30	23	33	53
BEAVER CREEK near Havre	MAY-JUL	0.25	0.70	1.00	13	3.33	6.75	7.80

ST. MARY and MILK RIVER BASINS
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
LAKE SHERBURNE	64.3	7.7	7.9	20.8
FRESNO	127.0	8.3	72.4	95.8
BEAVER CREEK	3.5	2.6	3.0	2.5
NELSON	66.8	20.6	36.1	42.7

ST. MARY and MILK RIVER BASINS
Watershed Snowpack Analysis - May 1, 2001

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
ST. MARY	8	77	67
BEARPAW MOUNTAINS	4	0	92
CYPRESS HILLS, CANADA	0	0	0
MILK RIVER BASIN	4	0	92
ST. MARY & MILK BASINS	12	79	68

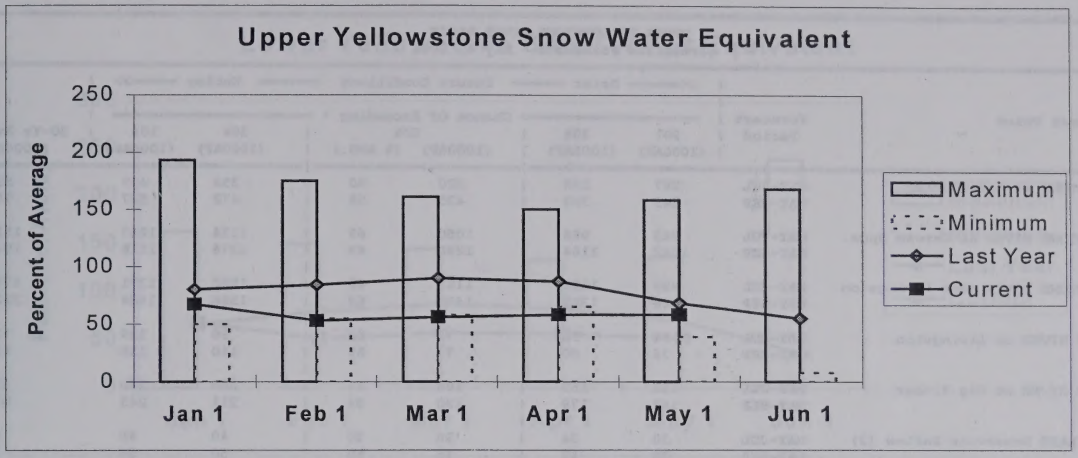
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

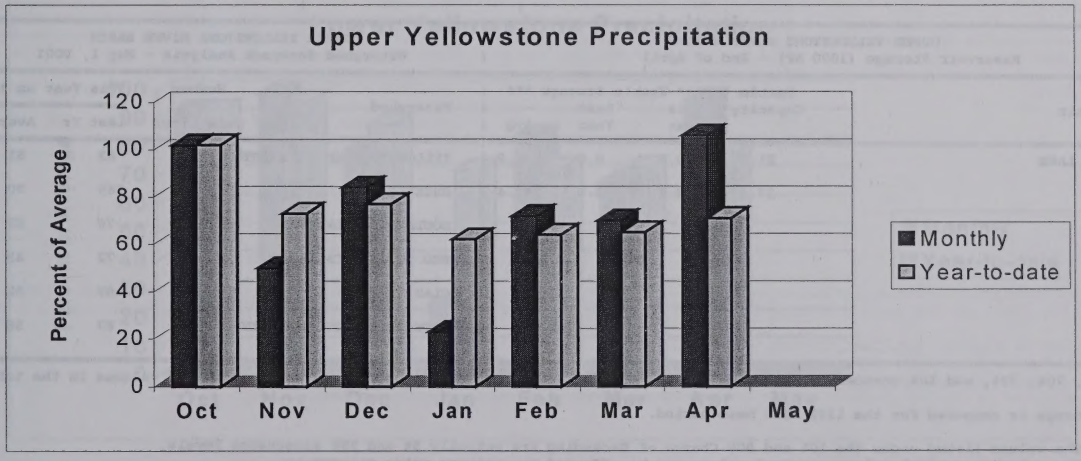
Upper Yellowstone River Basin

Snowpack conditions in the Upper Yellowstone River Basin were well below average. Snow water content was 5 percent of average and 87 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1997 and minimum swe was in 1977; March maximum swe was in 1997 and minimum swe was in 1977; April maximum swe was in 1971 and minimum swe was in 1981; May maximum swe was in 1997 and minimum swe was in 1987; and June maximum swe was 1982 and minimum swe was in 1987 and 1994. Average is for the period 1961 through 1990.

Mountain precipitation during April was 112 percent of average and 143 percent of last year. Valley precipitation during April was 82 percent of average and 126 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2000, was 71 percent of average and 85 percent of last year.



Mystic Lake storage was 47 percent of average and 0 percent of last year and Cooney storage was 121 percent of average and 106 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -3.0 in the Yellowstone River above Livingston; -3.4 in the Shields River; -3.8 in the Boulder River; -3.6 in the Stillwater River; -3.4 in the Rock/Red lodge Creeks; -3.8 in the Clarks Fork River; and -3.2 in the Yellowstone River above Bighorn River.

UPPER YELLOWSTONE RIVER BASIN
Streamflow Forecasts - May 1, 2001

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
YELLOWSTONE at Lake Outlet	MAY-JUL	267	298	320	60	356	409	538
	MAY-SEP	343	398	435	58	472	527	756
YELLOWSTONE RIVER at Corwin Spgs.	MAY-JUL	843	966	1050	69	1134	1257	1516
	MAY-SEP	1042	1184	1280	69	1376	1518	1844
YELLOWSTONE RIVER near Livingston	MAY-JUL	999	1110	1185	68	1260	1371	1737
	MAY-SEP	1226	1362	1455	69	1548	1684	2123
SHIELDS RIVER nr Livingston	MAY-JUL	34	55	70	52	98	139	134
	MAY-SEP	36	60	77	51	110	158	151
BOULDER RIVER at Big Timber	MAY-JUL	152	169	180	56	200	230	322
	MAY-SEP	162	179	190	54	211	243	350
MYSTIC LAKE Reservoir Inflow (2)	MAY-JUL	30	34	36	60	40	46	60
	MAY-SEP	38	42	45	58	50	56	77
STILLWATER RIVER nr Absarokee (2)	MAY-JUL	240	273	295	62	331	385	474
	MAY-SEP	290	326	350	62	389	446	569
CLARKS FORK RIVER nr Belfry	MAY-JUL	237	262	280	55	312	359	508
	MAY-SEP	255	282	300	53	334	384	566
COONEY RESERVOIR Inflow (2)	MAY-JUL	6.6	12.1	15.8	42	25	38	38
	MAY-SEP	12.4	18.4	23	46	31	44	49
YELLOWSTONE RIVER at Billings (2)	MAY-JUL	1326	1557	1715	52	2018	2464	3320
	MAY-SEP	2293	2519	2700	68	3028	3203	3954

UPPER YELLOWSTONE RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
MYSTIC LAKE	21.0	0.9	0.0	1.9
COONEY	27.4	23.4	22.0	19.4

UPPER YELLOWSTONE RIVER BASIN
Watershed Snowpack Analysis - May 1, 2001

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
YELLOWSTONE ab LIVINGSTON	17	83	61
SHIELDS	5	169	70
BOULDER-STILLWATER	4	76	57
RED LODGE-ROCK CREEK	6	72	43
CLARK'S FORK	7	69	52
UPPER YELLOWSTONE BASIN	35	87	58

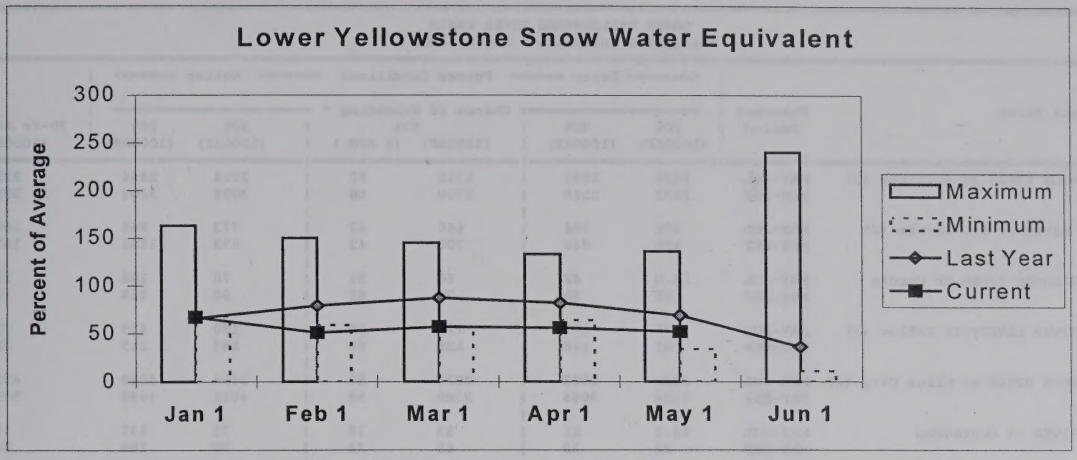
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

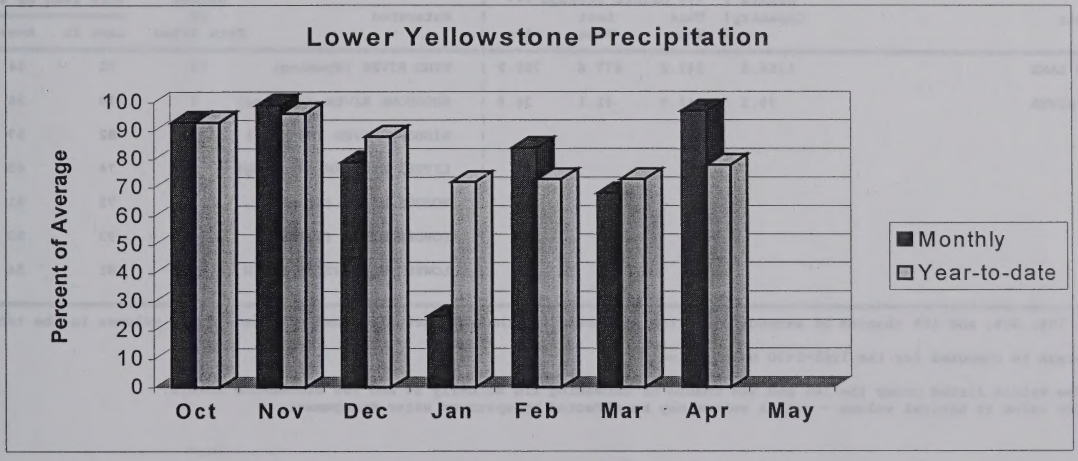
Lower Yellowstone River Basin

Snowpack conditions in the Lower Yellowstone River Basin, in Wyoming, were well below average. Snow water content was 52 percent of average and 79 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1981; February maximum swe was in 1997 and minimum swe was in 1981; March maximum swe was in 1986 and minimum swe was in 1977; April maximum swe was in 1986 and minimum swe was in 1981; May maximum swe was in 1997 and minimum swe was in 1981; and June maximum swe was in 1995 and minimum swe was in 1994. Average is for the period 1961 through 1990.

Mountain and valley precipitation during April was 97 percent of average and 105 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2000, was 78 percent of average and 89 percent of last year.



Bighorn Lake storage was 107 percent of average and 96 percent of last year and Tongue River storage was 122 percent of average and 108 percent of last year.

Surface Water Supply Index (SWSI) was -2.3 in the Bighorn River below Bighorn Lake; -3.4 in the Little Bighorn River; -2.8 in the Yellowstone River below Bighorn River; -3.1 in the Tongue River; and -3.9 in the Powder River.

LOWER YELLOWSTONE RIVER BASIN
Streamflow Forecasts - May 1, 2001

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
YELLOWSTONE RIVER at Billings (2)	MAY-JUL	1326	1557	1715	52	2018	2464	3320
	MAY-SEP	2293	2519	2700	68	3028	3203	3954
BIGHORN RIVER nr St. Xavier (2)	MAY-JUL	502	584	640	42	773	969	1508
	MAY-SEP	485	644	700	42	833	1154	1673
LITTLE BIGHORN RIVER nr Hardin	MAY-JUL	15.0	42	60	51	78	105	118
	MAY-SEP	21	50	70	52	90	119	135
TONGUE RIVER RESERVOIR Inflow (2)	MAY-JUL	77	103	120	58	150	195	208
	MAY-SEP	87	116	135	60	167	215	227
YELLOWSTONE RIVER at Miles City (2)	MAY-JUL	2022	2503	2830	57	3404	4248	4957
	MAY-SEP	2626	3066	3380	58	4011	4493	5835
POWDER RIVER at Moorehead	MAY-JUL	14.0	25	33	18	75	137	182
	MAY-SEP	24	39	49	24	92	155	204
POWDER RIVER near Locate	MAY-JUL	16.0	21	24	11	53	97	211
	MAY-SEP	24	33	40	17	79	137	234
YELLOWSTONE RIVER nr Sidney (2)	MAY-JUL	2375	2604	2760	51	3102	3425	5383
	MAY-SEP	2633	2992	3426	55	4464	4764	6268

LOWER YELLOWSTONE RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
BIGHORN LAKE	1356.0	841.2	877.6	789.2
TONGUE RIVER	79.1	44.5	41.1	36.6

LOWER YELLOWSTONE RIVER BASIN
Watershed Snowpack Analysis - May 1, 2001

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
WIND RIVER (Wyoming)	19	75	44
SHOSHONE RIVER (Wyoming)	7	78	54
BIGHORN RIVER (Wyoming)	21	82	57
LITTLE BIGHORN (Wyoming)	3	74	65
TONGUE RIVER (Wyoming)	9	75	61
POWDER RIVER (Wyoming)	9	93	53
LOWER YELLOWSTONE BASIN (	47	81	54

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

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Montana
Basin Outlook Report

Natural Resources Conservation Service
Bozeman, MT